



Metropolitan Water Reclamation District of Greater Chicago

**Welcome to the November
Edition of the 2022 M&R
Seminar Series**

NOTES FOR SEMINAR ATTENDEES

- Remote attendees' audio lines have been muted to minimize background noise. **For attendees in the auditorium, please silence your phones.**
- A question and answer session will follow the presentation.
- For remote attendees, Please use the "**Chat**" feature to ask a question via text to "**Host**". **For attendees in the auditorium, please raise your hand and wait for the microphone to ask a verbal question.**
- The presentation slides will be posted on the MWRD website after the seminar.
- This seminar is pending approval by the ISPE for one PDH and pending approval by the IEPA for one TCH. Certificates will only be issued to participants who attend the entire presentation.

Gregory Koch, P.E., Principal Civil Engineer Metropolitan Water Reclamation District of Greater Chicago



Greg Koch is a Principal Civil Engineer in the District's Plant Design Management Section. He received a Bachelor of Science and Master of Science in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign and a Juris Doctor from the Chicago-Kent College of Law. He has been with the District for over 17 years, including 10 years in the Stormwater Management Section managing flood control and streambank stabilization projects. Prior to joining the District, Greg worked as a consulting engineer for seven years.

Justin Kirk, Principal Civil Engineer, P.E., CFM Metropolitan Water Reclamation District of Greater Chicago



Justin Kirk began his career at MWRD in 2008 working in the Engineering Department's Tunnel and Reservoir Plan Section and currently serves as a Principal Civil Engineer in its Stormwater Management Section. Justin has acted as project manager on numerous flood control and streambank stabilization projects throughout Cook County including Tinley Creek in Crestwood, Cherry Creek in Flossmoor and Arrowhead Lake in Palos Heights. Justin's experience includes balancing interests of multiple stakeholders, including municipalities, private landowners, special interest districts and regulatory agencies to create comprehensive multi-use projects. Justin received a Bachelor of Science in Civil Engineering from the Illinois Institute of Technology and Master of Science in Project Management from Northwestern University.

Michael Cosme, P.E., CFM, Senior Civil Engineer Metropolitan Water Reclamation District of Greater Chicago



Mick Cosme joined the Metropolitan Water Reclamation District of Greater Chicago in 2001 and has more than 21 years of civil engineering experience. His project experience includes construction management and stormwater management. He currently is the project manager for the Addison Creek Reservoir and Channel Improvement projects and is involved in various stormwater management related activities at the MWRDGC. Mr. Cosme obtained his Bachelor of Science in Civil Engineering from the University of Illinois Urbana-Champaign.



**Metropolitan Water Reclamation
District of Greater Chicago**

Flood Reduction from Metropolitan Water Reclamation District of Greater Chicago Regional Stormwater Projects

November 18, 2022





OUTLINE

- **Overview of the MWRDGC Stormwater Management Program**
- **Regional Stormwater Projects**
- **Buffalo Creek Reservoir Expansion**
- **Addison Creek Reservoir and Channel Improvements**



STORMWATER MANAGEMENT TIMELINE

Regional Stormwater Projects

Identified from the DWPs to address overbank flooding “riverine flooding”

Local Stormwater Partnership Projects

Working with local communities and agencies to address local drainage problems.

Stormwater Masterplans

Investigate “urban flooding” issues, green & gray infrastructure solutions.

Green Infrastructure Projects

Partnerships addressing flooding and water quality issues using green practices that mimic the natural water cycle

2004

The authority for general supervision of stormwater management in Cook County was conveyed to the District by the Illinois State legislature.

2011

Detail Watershed Plans (DWPs) completed for the 6 major watersheds of Cook County:
Cal-Sag Channel, Little Calumet River, Lower Des Plaines, North Branch of the Chicago River, Poplar Creek, and Upper Salt Creek.

2014

District’s authority was amended to allow for flood-prone property acquisition and to plan, implement, finance, and operate local stormwater management projects.

2015

2016

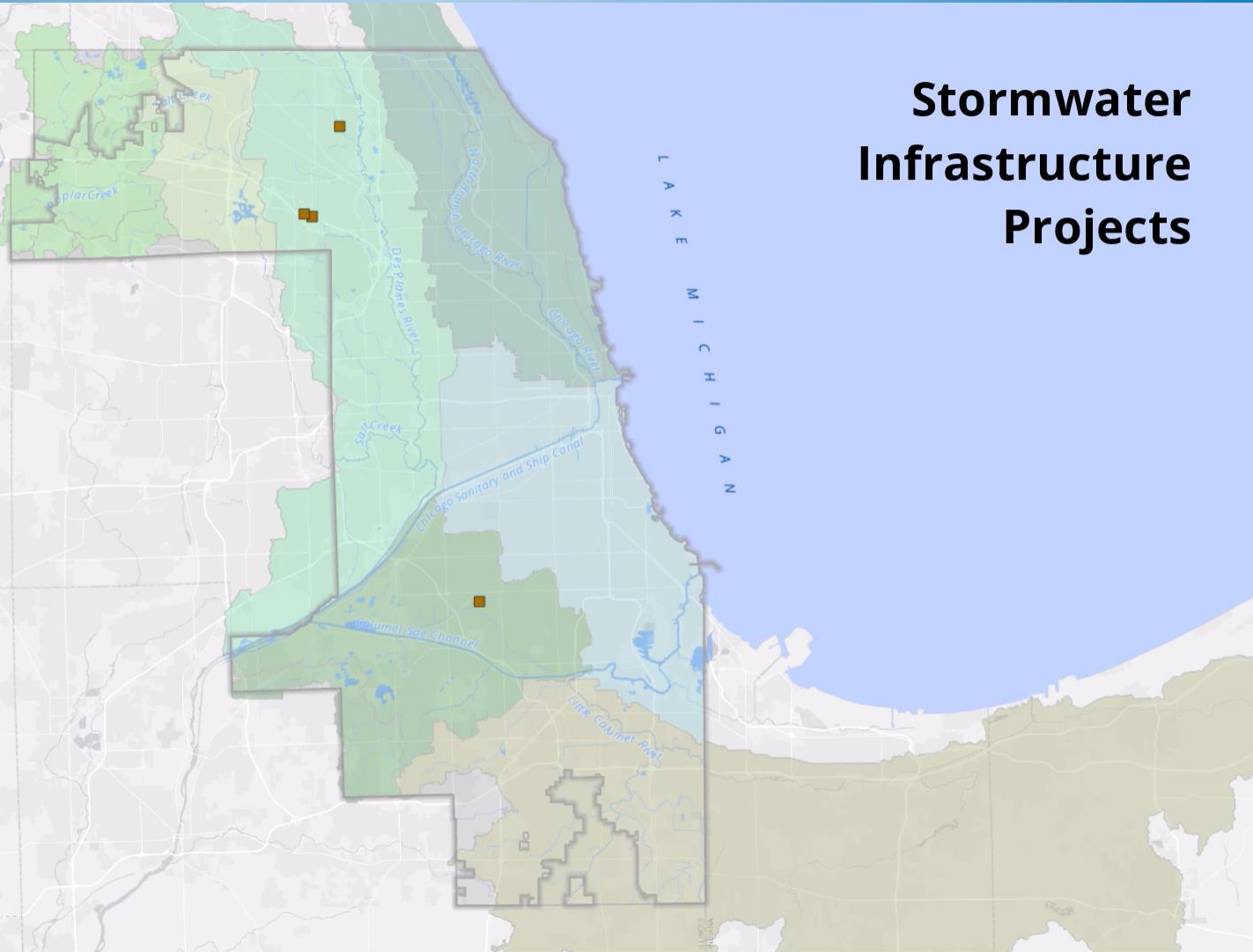
2021 2022



2011 October

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - ◆ Local - Ongoing
 - ◆ Local - Complete
 - Green Infrastructure - Ongoing
 - Green Infrastructure - Complete
 - ▨ Space To Grow - Ongoing
 - ▨ Space To Grow - Complete
 - 🏠 FPPA - Ongoing
 - 🏠 FPPA - Complete
 - MWRD Boundary

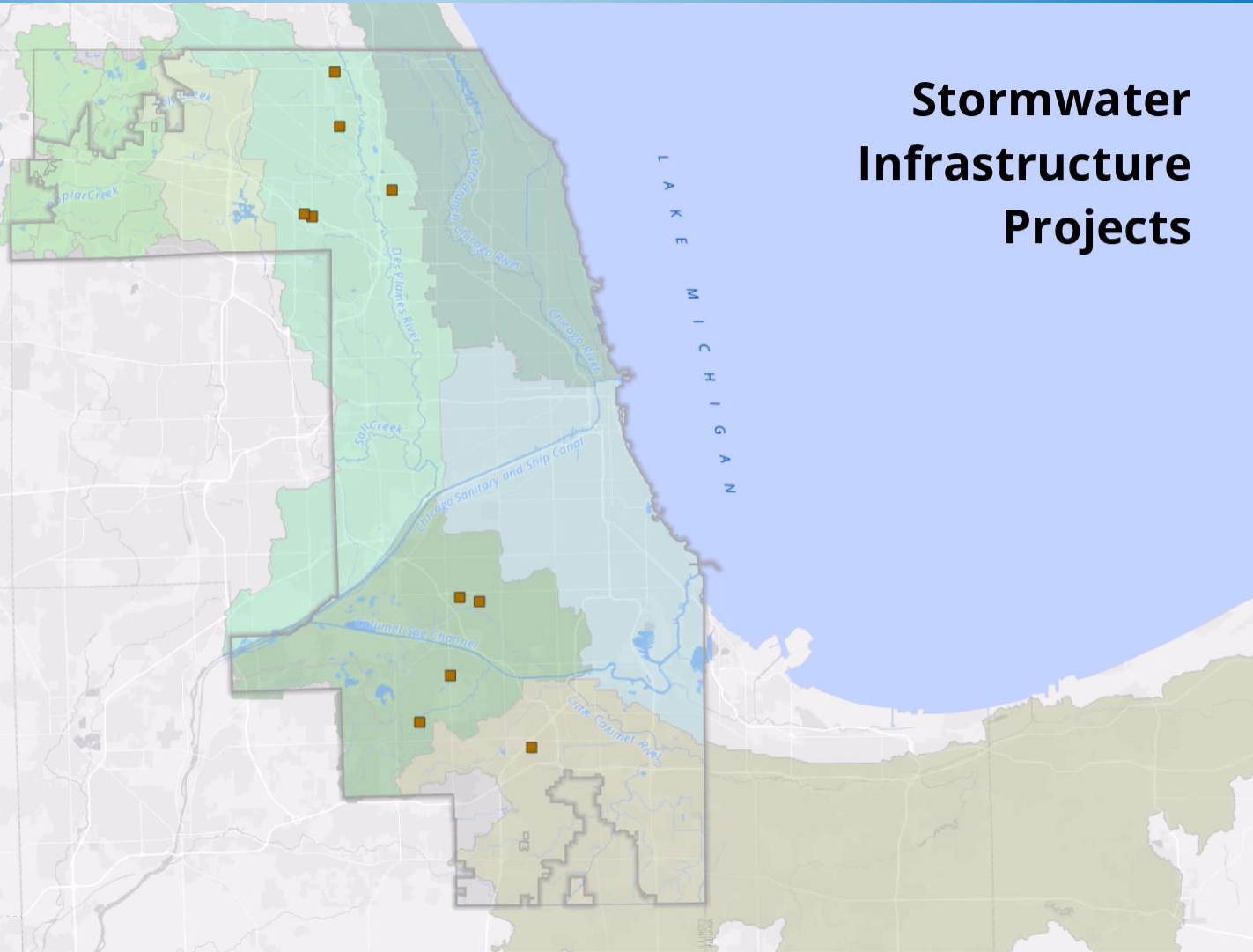




2013 July

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - ◆ Local - Ongoing
 - ◆ Local - Complete
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 - Green Infrastructure - Complete
 - ▤ Space To Grow - Ongoing
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 - 🏠 FPPA - Complete
 - MWRD Boundary

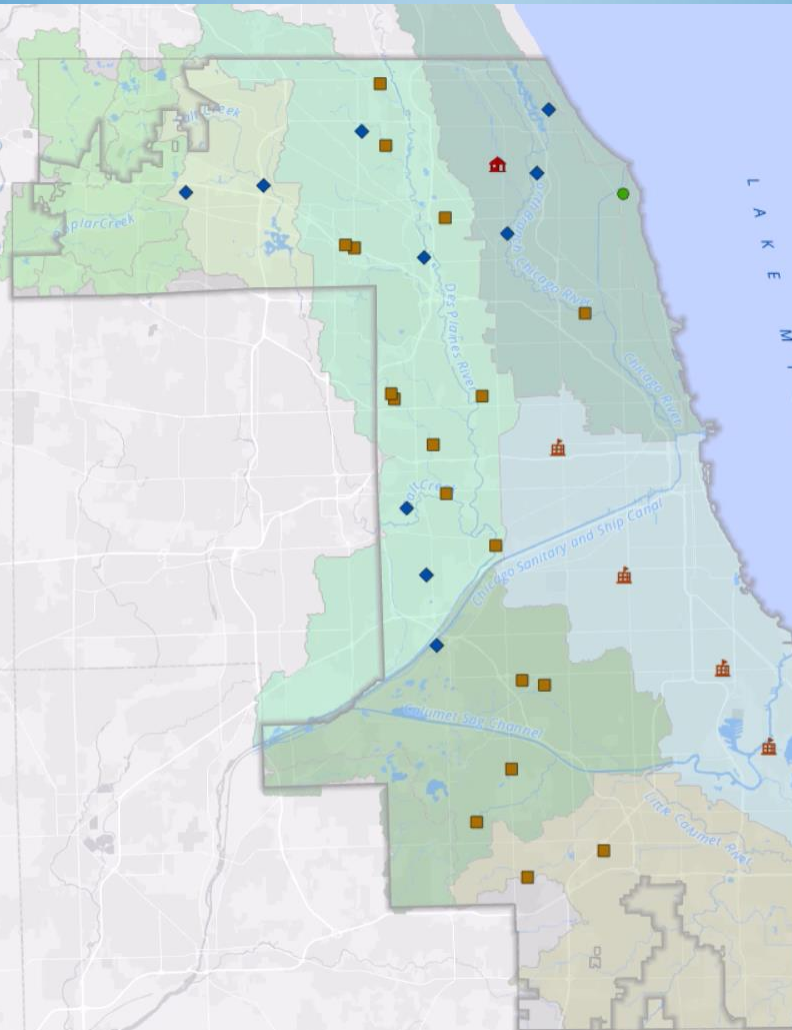




2014 September

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - Local - Ongoing
 - Local - Complete
 - Green Infrastructure - Ongoing
 - Green Infrastructure - Complete
 - Space To Grow - Ongoing
 - Space To Grow - Complete
 - FPPA - Ongoing
 - FPPA - Complete
 - MWRD Boundary



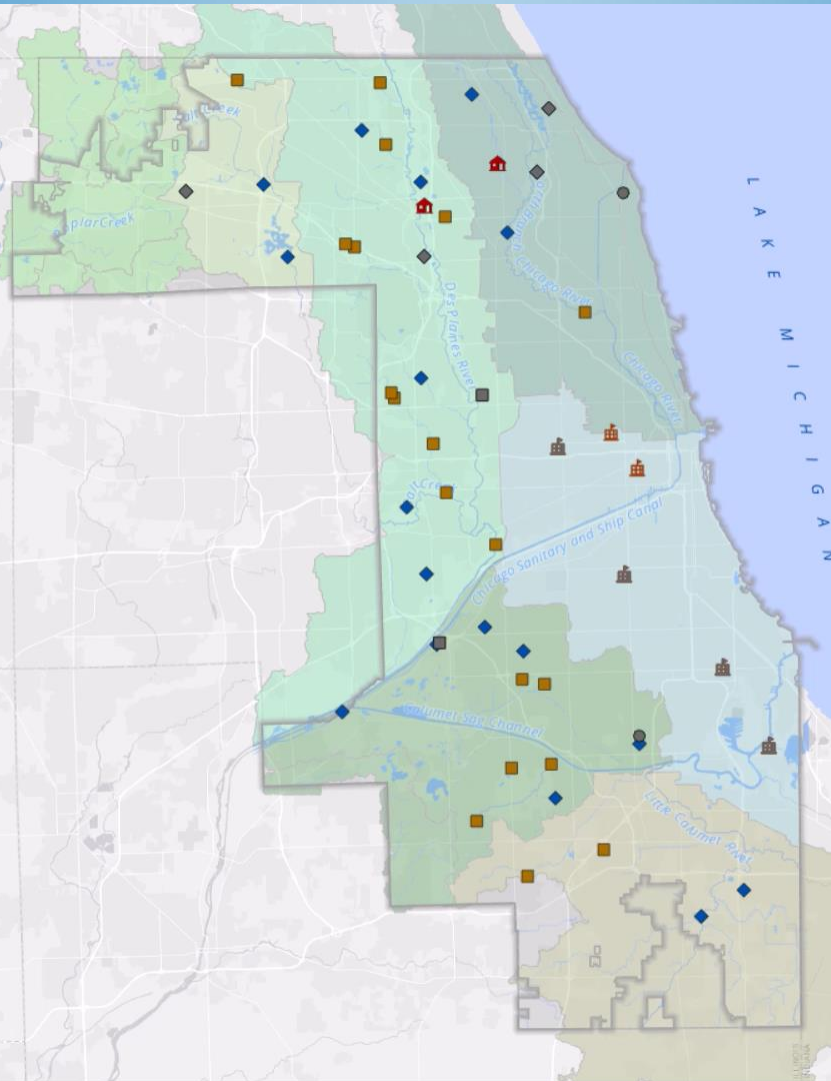
L A K E M I C H I G A N



2015 November

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - Local - Ongoing
 - Local - Complete
 - Green Infrastructure - Ongoing
 - Green Infrastructure - Complete
 - Space To Grow - Ongoing
 - Space To Grow - Complete
 - FPPA - Ongoing
 - FPPA - Complete
 - MWRD Boundary



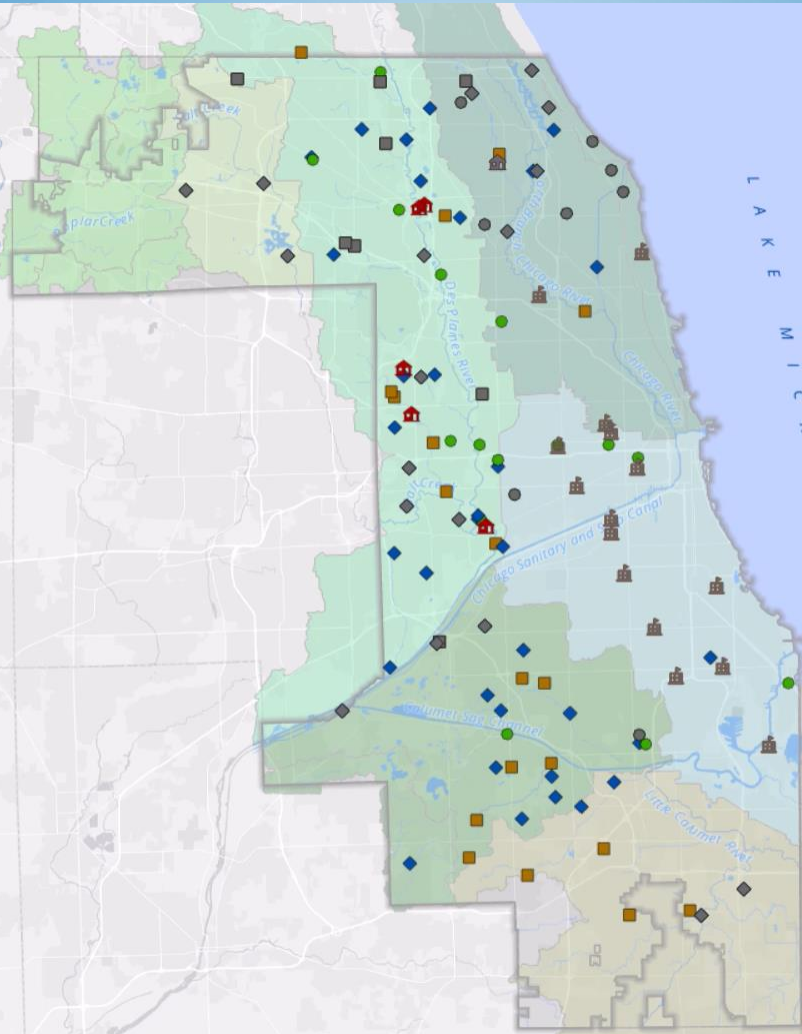
L A K E
M I C H I G A N



2018 September

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - Local - Ongoing
 - Local - Complete
 - Green Infrastructure - Ongoing
 - Green Infrastructure - Complete
 - Space To Grow - Ongoing
 - Space To Grow - Complete
 - FPPA - Ongoing
 - FPPA - Complete
 - MWRD Boundary



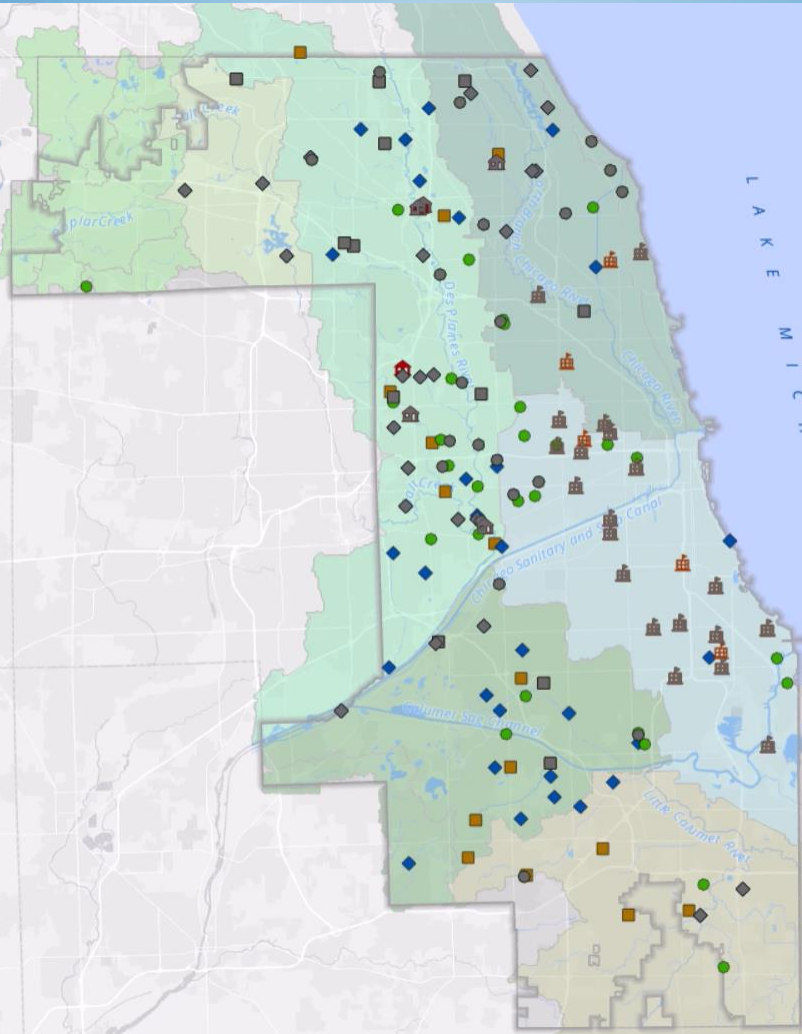
L A K E
M I C H I G A N



2020 May

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - Local - Ongoing
 - Local - Complete
 - Green Infrastructure - Ongoing
 - Green Infrastructure - Complete
 - Space To Grow - Ongoing
 - Space To Grow - Complete
 - FPPA - Ongoing
 - FPPA - Complete
 - MWRD Boundary

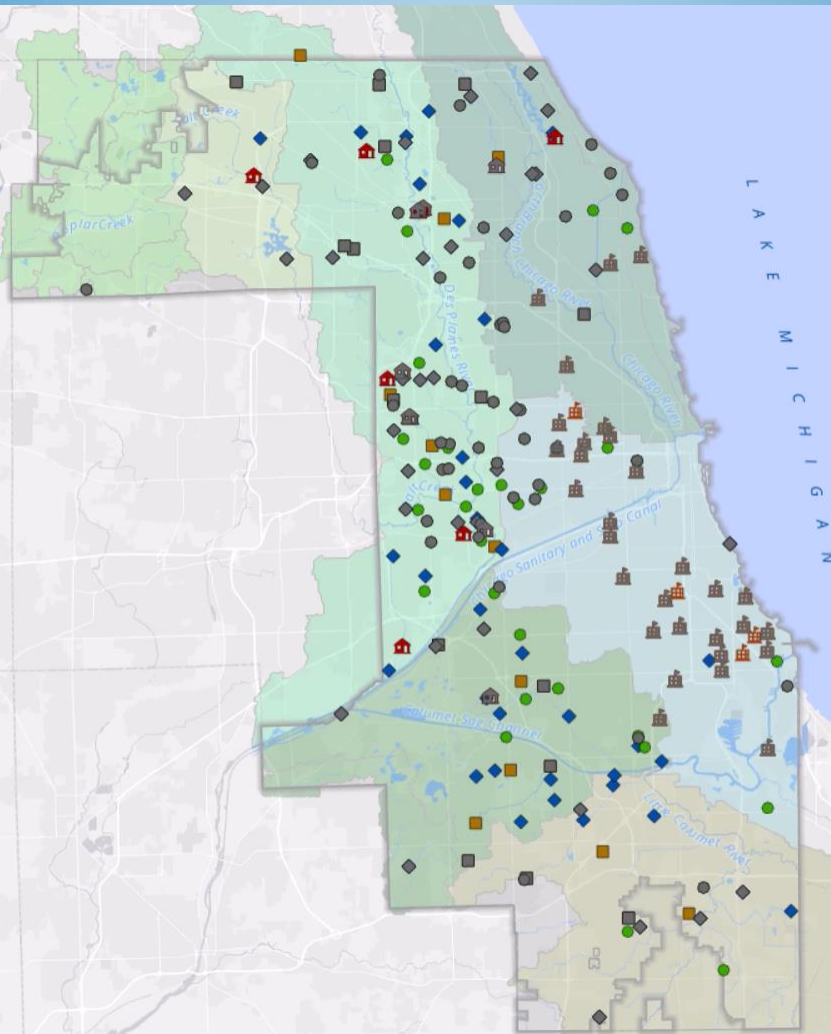




2022 September

Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
 - Regional - Complete
 - Local - Ongoing
 - Local - Complete
 - Green Infrastructure - Ongoing
 - Green Infrastructure - Complete
 - Space To Grow - Ongoing
 - Space To Grow - Complete
 - FPPA - Ongoing
 - FPPA - Complete
 - MWRD Boundary





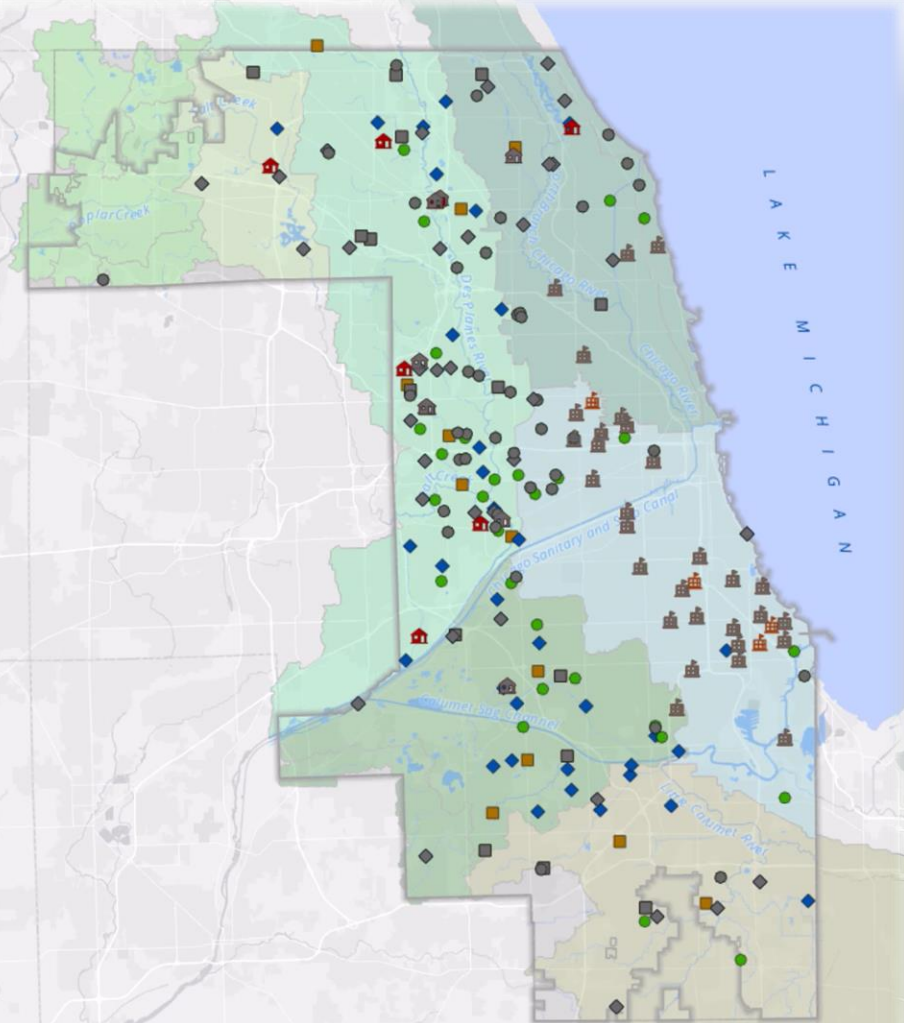
Stormwater Partnership Projects

Stormwater Program to-date

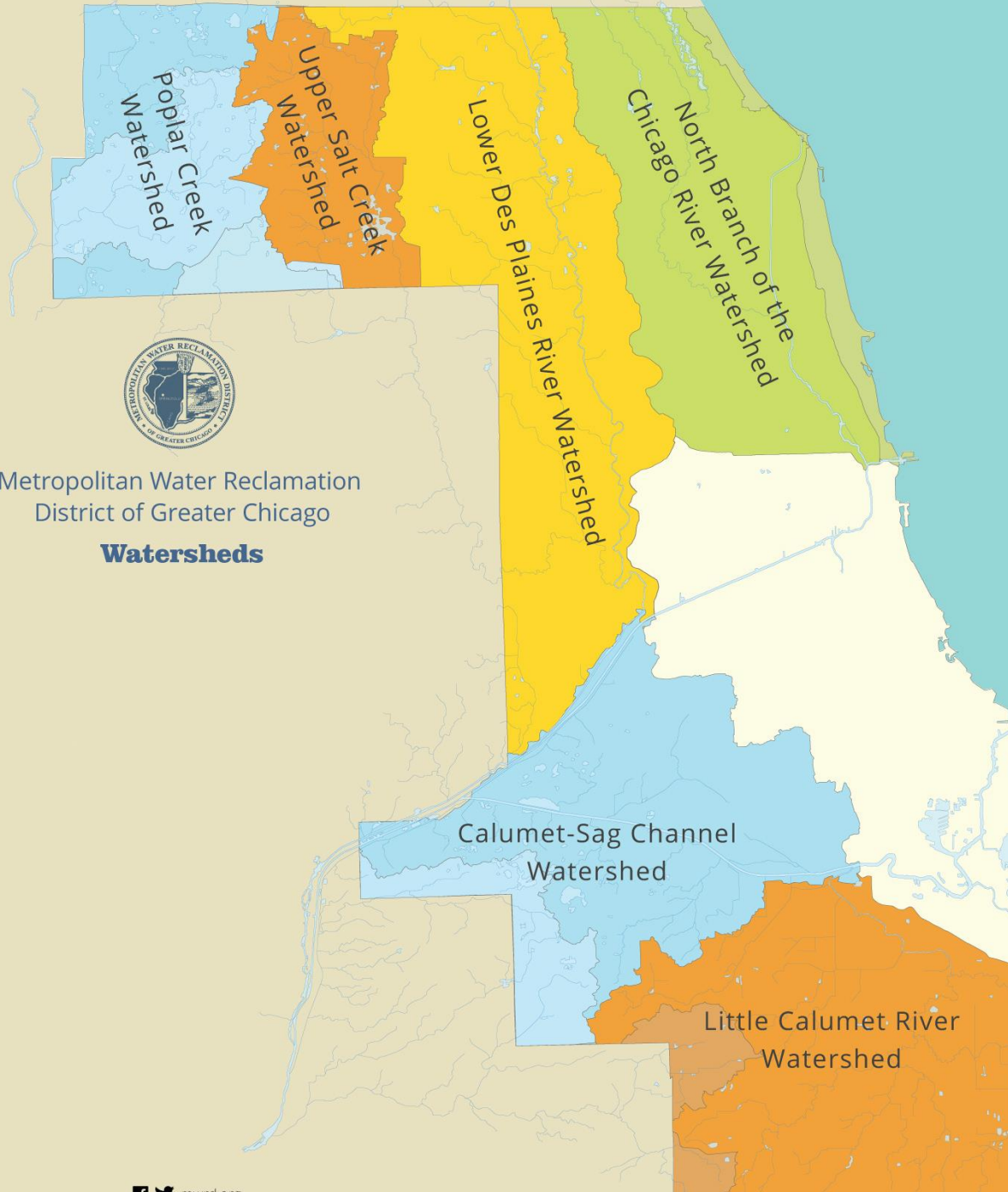
Program Component	Current Number of Projects	Structures Protected / Removed	Construction / Acquisition Cost (\$Millions)	MWRD Cost (\$Millions)
Regional Stormwater Projects (Phase I)	27	4,423	\$369	\$315
Local Stormwater Partnership Projects (Phase II)	67	>7,000	\$206	\$109
Green Infrastructure Projects	119*	5,382	\$114	\$35
Flood Prone Property Acquisitions	16	220	\$69	\$47
Totals	229	>17,000	\$758	\$506

*Includes all 34 Space to Grow projects to be completed by 2022.

See <https://mwr.org/stormwater-management> for more info



6 Major
Watersheds
Over 900
square miles,
& 125
Communities,
Combined
sewer areas
comprise 375
square miles
served by
TARP



Metropolitan Water Reclamation
District of Greater Chicago
Watersheds



REGIONAL STORMWATER MANAGEMENT PROJECT HIGHLIGHTS

Heritage Park Flood Control Facility in Wheeling (2015)

Elmwood Park Floodwall (2015)

Upper Salt Creek Flood Control Project in Palatine (2016)

Tinley Creek Flood Control Project in Crestwood (2016)

Albany Park Diversion Tunnel (2018)

Melvina Ditch Reservoir Expansion (2020)

Cherry Creek Flood Control Project in Flossmoor (2020)

Buffalo Creek Reservoir Expansion (2021)

Lake Arrowhead Flood Control Project in Palos Heights (2022)

Calumet Union Drainage Ditch in Markham (2022)

Addison Creek Reservoir (2023) & Channel Improvements (2025)

Farmers & Prairie Creeks Flood Control Project (2025)



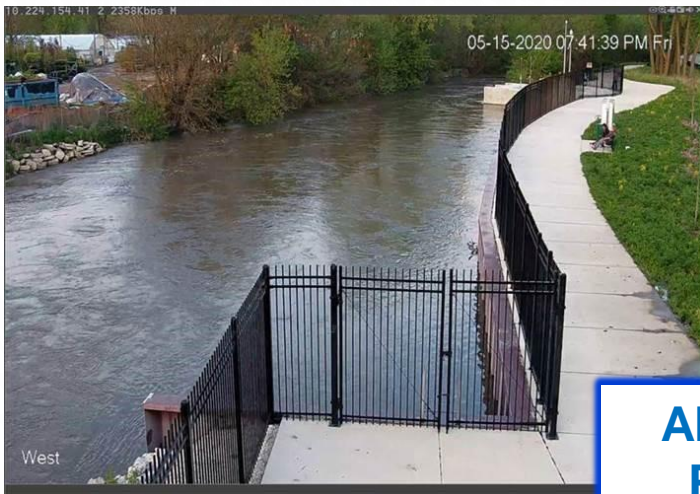
REGIONAL STORMWATER MANAGEMENT PROJECTS



Heritage Park



Upper Salt Creek



Albany Park





REGIONAL STORMWATER MANAGEMENT PROJECTS

Tinley Creek Flood Control Project in Crestwood





REGIONAL STORMWATER MANAGEMENT PROJECTS

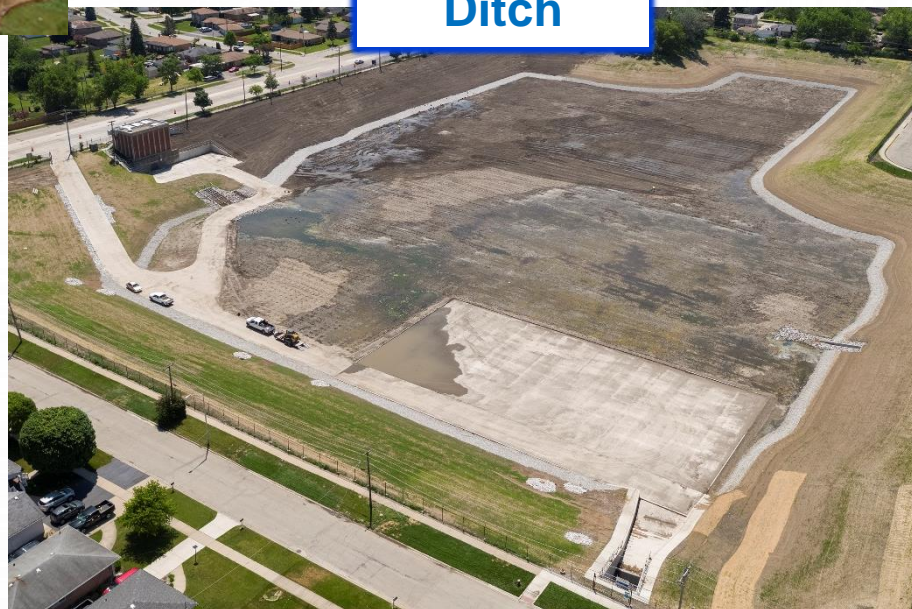
Lake Arrowhead



Melvina Ditch



Cherry Creek





KEY STEPS FOR REGIONAL STORMWATER MANAGEMENT PROJECTS

- **DWP / Preliminary Design**
- **Intergovernmental Agreements**
- **Final Design**
- **ROW – Easements, Property Acquisition**
- **Permits – USACE, IDNR, IEPA, SWCD**
- **Utility Coordination**
- **Construction**
- **Startup / Vegetation Establishment**
- **Flood Map Revisions**



BUFFALO CREEK RESERVOIR EXPANSION





BUFFALO CREEK RESERVOIR 1982-1988





BUFFALO CREEK RESERVOIR 1988-2018



Emergency Spillway

Auxiliary Spillway

Lower Pool (Elev. 688.1)

48" RCP Principal Spillway



BUFFALO CREEK RESERVOIR 1988-2018



Spillways

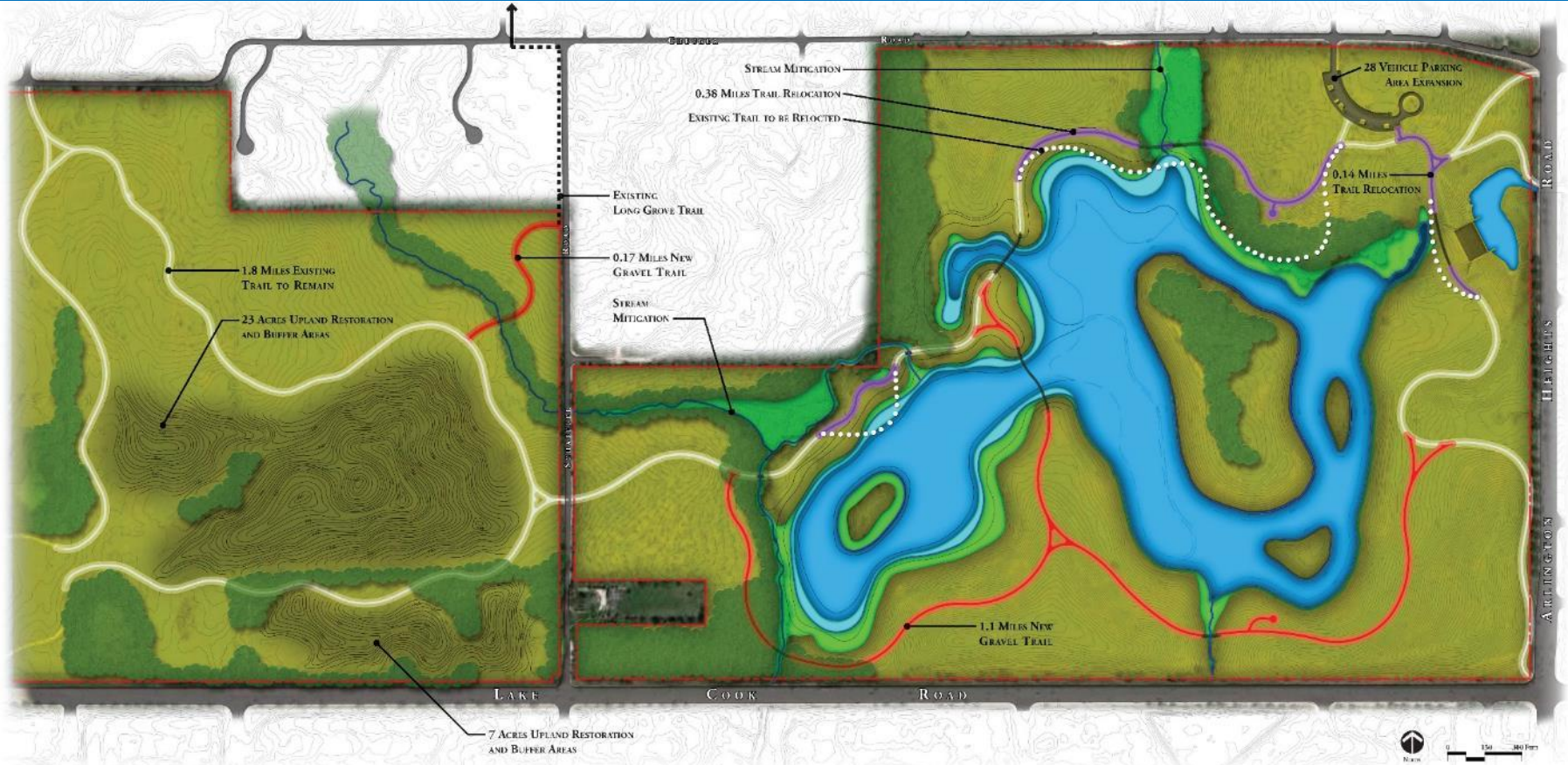
Lower Pool (Elev. 688.1)

Gabion Drop Structure

Upper Pool (Elev. 693.0)



PLANS FOR EXPANSION



PREPARED FOR:



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

PROPERTY OWNER:



PREPARED BY:



	FINAL CONFIGURATION	EXISTING CONDITIONS	INCREASE
FLOOD VOLUME AT ELEVATION 702:	935.8 ACRE-FEET	755.1 ACRE-FEET	180.7 ACRE-FEET
OPEN WATER AREA:	40.1 ACRES	33.8 ACRES	6.3 ACRES
EMERGENT ZONE AREA:	4.5 ACRES	-----	4.5 ACRES
WETLAND AREA:	14.8 ACRES	14.1 ACRES	0.7 ACRES
TRAIL (EAST OF SCHAEFFER RD):	2.8 MILES	1.7 MILES	1.1 MILES
TRAIL (WEST OF SCHAEFFER RD):	1.97 MILES	1.8 MILES	0.17 MILES





STAKEHOLDERS AND PERMITTING



LAKE COUNTY
FOREST PRESERVES



LakeCounty
Division of Transportation



THE VILLAGE OF
Buffalo Grove
ILLINOIS



ILLINOIS HISTORIC
Preservation
AGENCY



HISTORIC DOWNTOWN
Long Grove



STORMWATER MANAGEMENT COMMISSION



US Army Corps
of Engineers®
Chicago District



BIDDING AND AWARD

- Contract was advertised on November 1, 2017. Six bids were submitted ranging from \$9.7M to \$16.2M
- Contract was awarded to Lake County Grading Company on February 15, 2018 for \$9,678,900.00
- Contract duration is 2,557 days which allows for 2 years of reservoir construction and concurrent 3-year (general restoration) and 5-year (stream mitigation) monitoring and management periods





DEWATERING FOR CONSTRUCTION





DEWATERING FOR CONSTRUCTION





RESERVOIR EXPANSION



New Trail
(Under
Construction)

Lake Cook Rd.

Trib 'A'

Haul
Route

Island
Removed

Existing
Trail
(Open)

Diversion
Ditch

Upper Pool



RESERVOIR EXPANSION

- Spoil material from reservoir construction used to create hills (6 to 25 feet high) that were planted with native prairie seed





CHANNEL STABILIZATION

- Stone grade control structure at West Unnamed Tributary
- Installation of sheet pile and riprap grade control structure on Tributary A





WETLAND AND STREAM MITIGATION

- Construction of the project necessitated unavoidable impacts to 2.70 acres of wetland and 339 feet of tributary stream channel under USACE jurisdiction
- MWRD and LCFPD entered into separate IGA for LCFPD to perform offsite wetland mitigation at Captain Daniel Wright Woods Forest Preserve
- Stream Mitigation consisting of selective clearing, grading banks, riffle enhancements, and native vegetation completed on 400 feet of the Main Stem and 1,200 feet of the West Unnamed Tributary





NATURAL AREA IMPROVEMENTS

- Site restored with native prairie, terraced wetlands, and a naturalized shoreline





NATURAL AREA IMPROVEMENTS





NATURAL AREA IMPROVEMENTS

- 850 native trees and 200 native shrubs planted on site





PUBLIC ACCESS IMPROVEMENTS

- 7 timber bridges/boardwalks
- 29 space parking lot expansion
- 2 pedestrian overlooks
- Over 2 miles of new or reconstructed trails
- 2 new benches





MONITORING & MANAGEMENT

- 3 years: Non-mitigation (BMPs, buffers, etc.) areas
- 5 years: On-site (stream) mitigation areas





Metropolitan Water Reclamation District of Greater Chicago

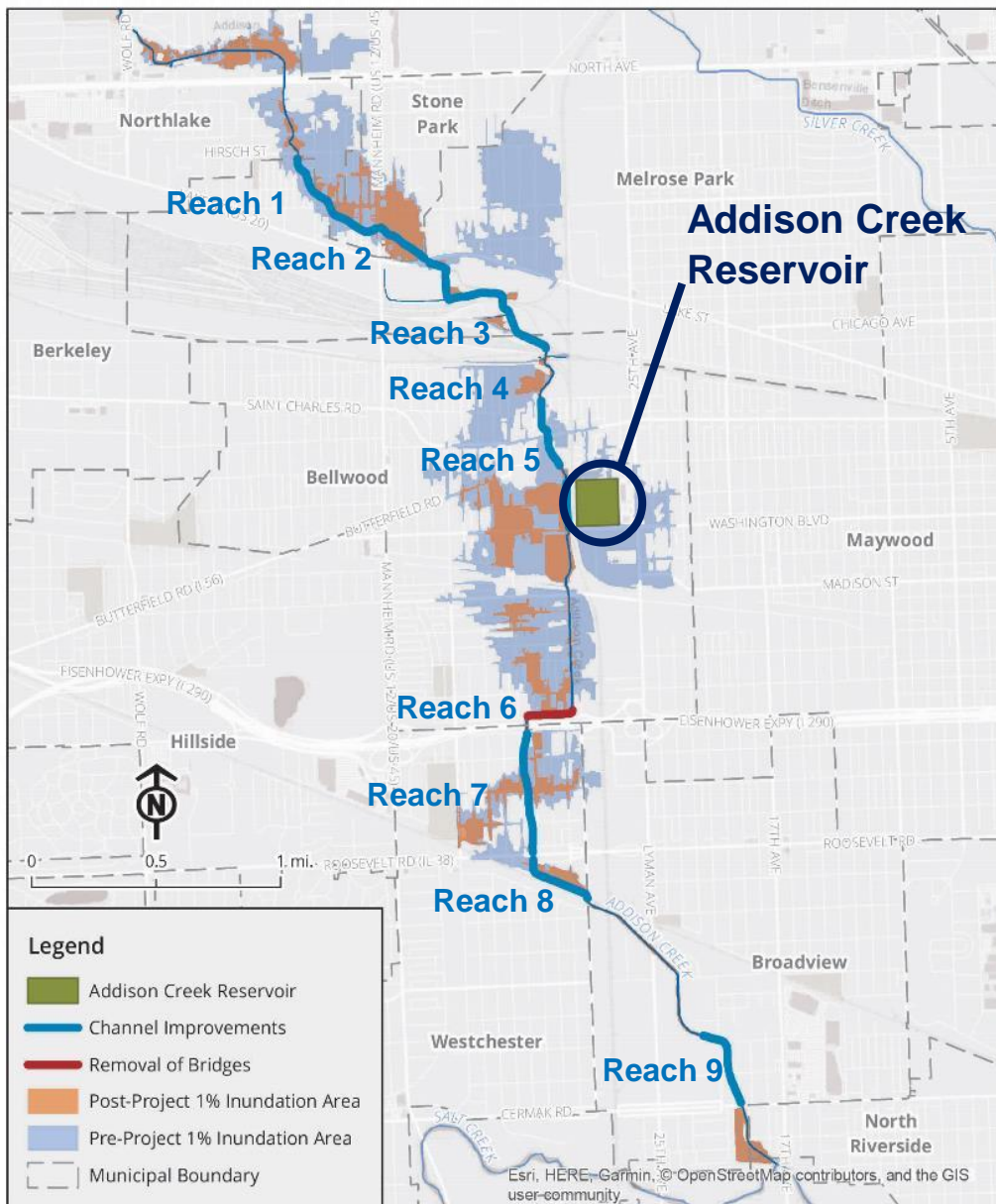
Addison Creek Reservoir

Mick Cosme, PE, CFM
Senior Civil Engineer
Stromwater Management

November 18, 2022



ADDISON CREEK RESERVOIR & CHANNEL IMPROVEMENTS



- **Protects 2,200 Structures**
 - Northlake
 - Stone Park
 - Melrose Park
 - Bellwood
 - Westchester
 - Broadview
- **1,700 Structures Removed from the Floodplain**
- **\$116 Million in Flood Benefits**
- **Reservoir Stores 195 MG**
- **3 Miles of Channel Improvements**



APRIL 2013 FLOOD

Northlake - Morse Drive



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Northlake – E. Hirsh St.



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Northlake – 45th Ave



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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- (4) 12.32 ft on 06/15/2015
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Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Stone Park – Mannheim Road



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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- (4) 12.32 ft on 06/15/2015
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Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Stone Park – 40th Ave



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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Flood Categories (in feet)	
Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Stone Park – Lake Street



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
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Flood Categories (in feet)	
Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Melrose Park– 37th Ave



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
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Flood Categories (in feet)

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Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Bellwood – St. Charles Place



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
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- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Bellwood – Butterfield Road



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
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Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Bellwood – Van Buren Street



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
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Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Bellwood – Harrison Street



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Westchester – Suffolk Ave



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
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- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Westchester – Norfolk Ave



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
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- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Westchester – Norfolk Ave



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
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- (5) 11.51 ft on 08/22/2014
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- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Westchester – Derby Lane



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
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- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



APRIL 2013 FLOOD

Broadview – Cermak Road



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
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- (10) 10.07 ft on 10/02/2006
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- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



DETAILED WATERSHED PLAN

Final Report

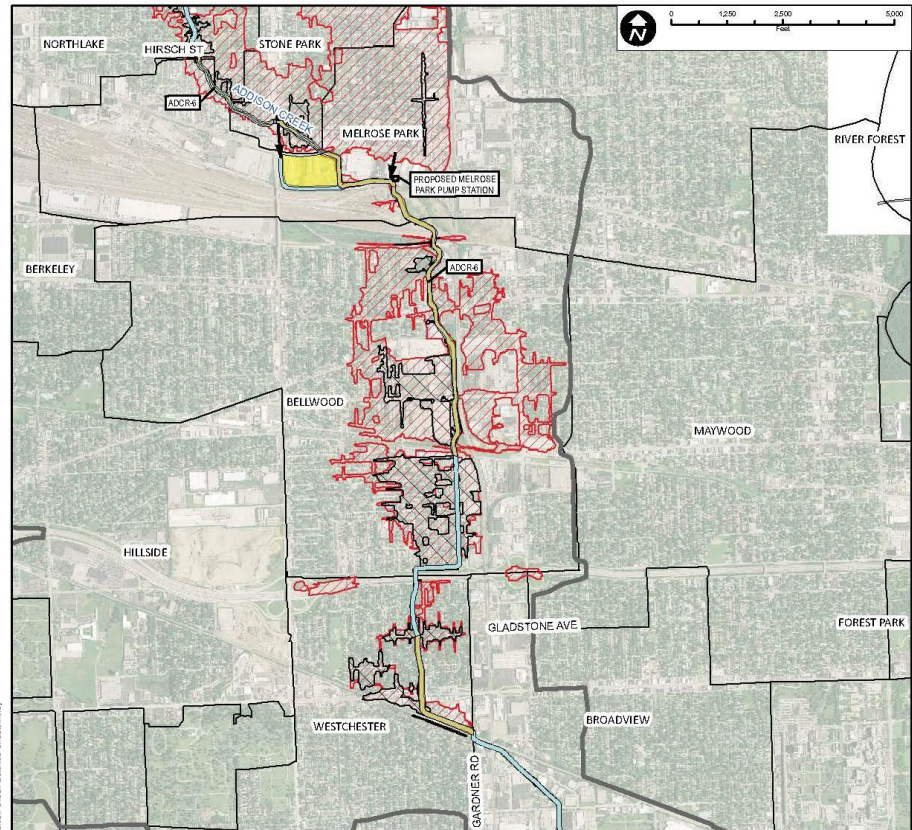
Detailed Watershed Plan for the Lower Des Plaines River Watershed: Volume 1

Prepared for
**Metropolitan Water Reclamation
 District of Greater Chicago**
 February 28, 2011



Christopher B. Burke Engineering, Ltd.

Map Document: Z:\MWR\DC\06\048 Phase B\GIS\Habitat\Map\Addition_Soil_Cover\Medison_Creek_Data\Add_Shaeds.mxd



Subwatershed: Addison Creek
 Alternative: ADCR-6b
 Alternatives Description: 960 A-F Reservoir southeast of Lake Street and Mannheim Road. Mannheim Pump Station modification force main extended to the Lake and Mannheim Tributary. New Melrose Park Pump Station with 3-20 cfs pumps following existing storm sewer alignment south of 33rd Avenue. Channel improvements from Hirsch Street to Madison Street and Gladstone to Gardiner Road. Mannheim Road culvert modification. Lake Street sediment removal.

Concept Level Cost: \$133,821,295
 Benefits: \$186,463,022
 B/C Ratio: 1.5

Legend

100-Year Storm Event Flood Inundation Without Project	Culvert/Bridge Modification	Approximate Creek Channel Location	Problem Areas Modeled
100-Year Storm Event Flood Inundation With Project	Channel Improvements	Municipal Boundary	Regional
Reservoir	Levee/Floodwall	Watershed Boundary	

CLIENT: METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	TITLE: LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN ADDISON CREEK WATERSHED RECOMMENDED ALTERNATIVE ADCR-6B	PROJ. NO.: 08-0943 DATE: 05-23-2010 SHEET: 1 OF 1 DRAWING NO.:
--	--	---

CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500	DESIGN	DRW 4-10	SCALE	
	DRAWN		GIS USER	DRW
	CHECKED		PLOT DATE	
	FILE:			

FIGURE 3.2.20



PRELIMINARY DESIGN - MELROSE PARK SITE

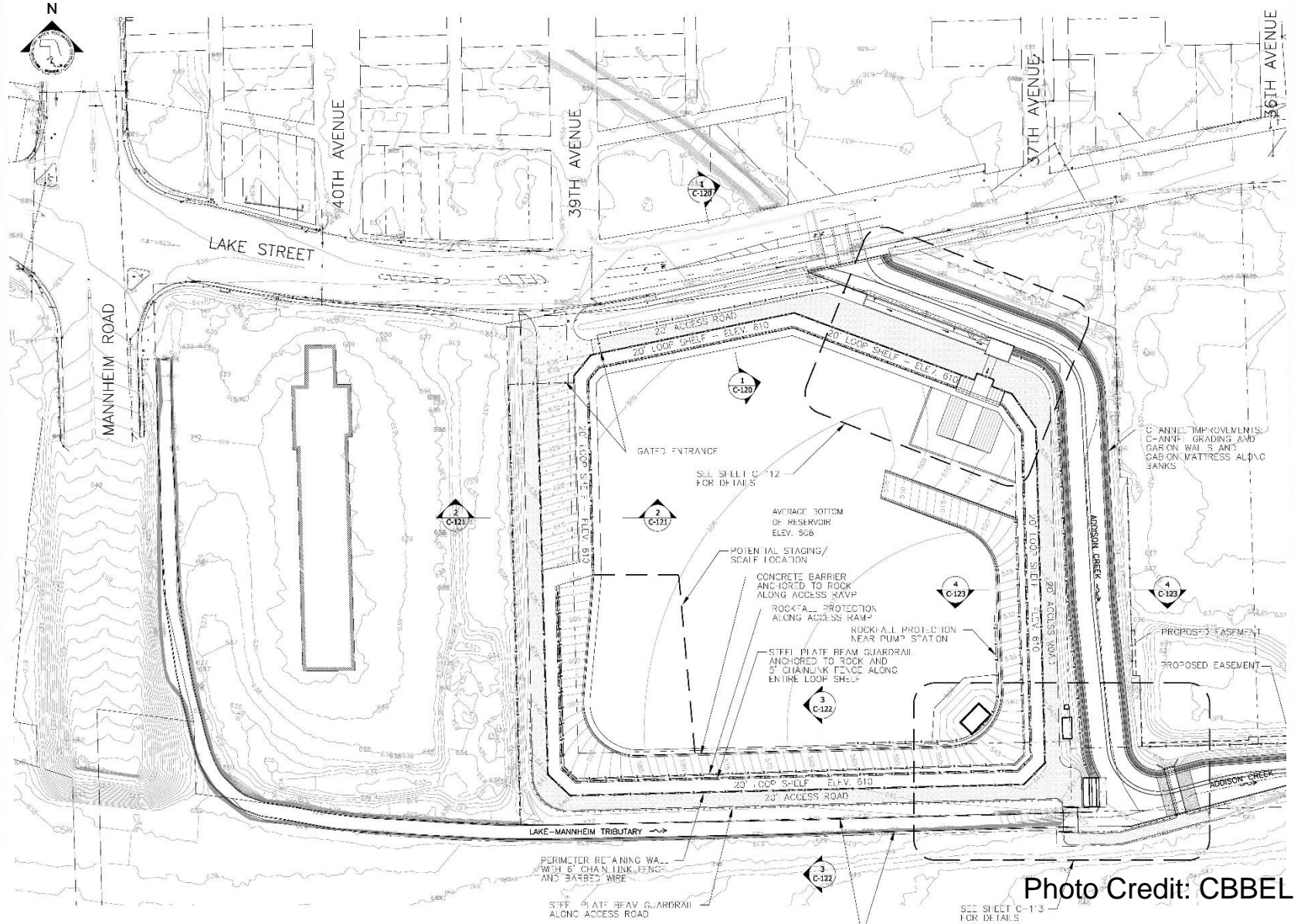


Photo Credit: CBEL

BOT = 506.00 (AV-RAGE)
PROPOSED STORAGE VOLUME = 978 A-F (BELOW 630)

EXISTING CONCRETE RETAINING WALLS
ALONG TRIBUTARY

SEE SHEET C-13
FOR DETAILS





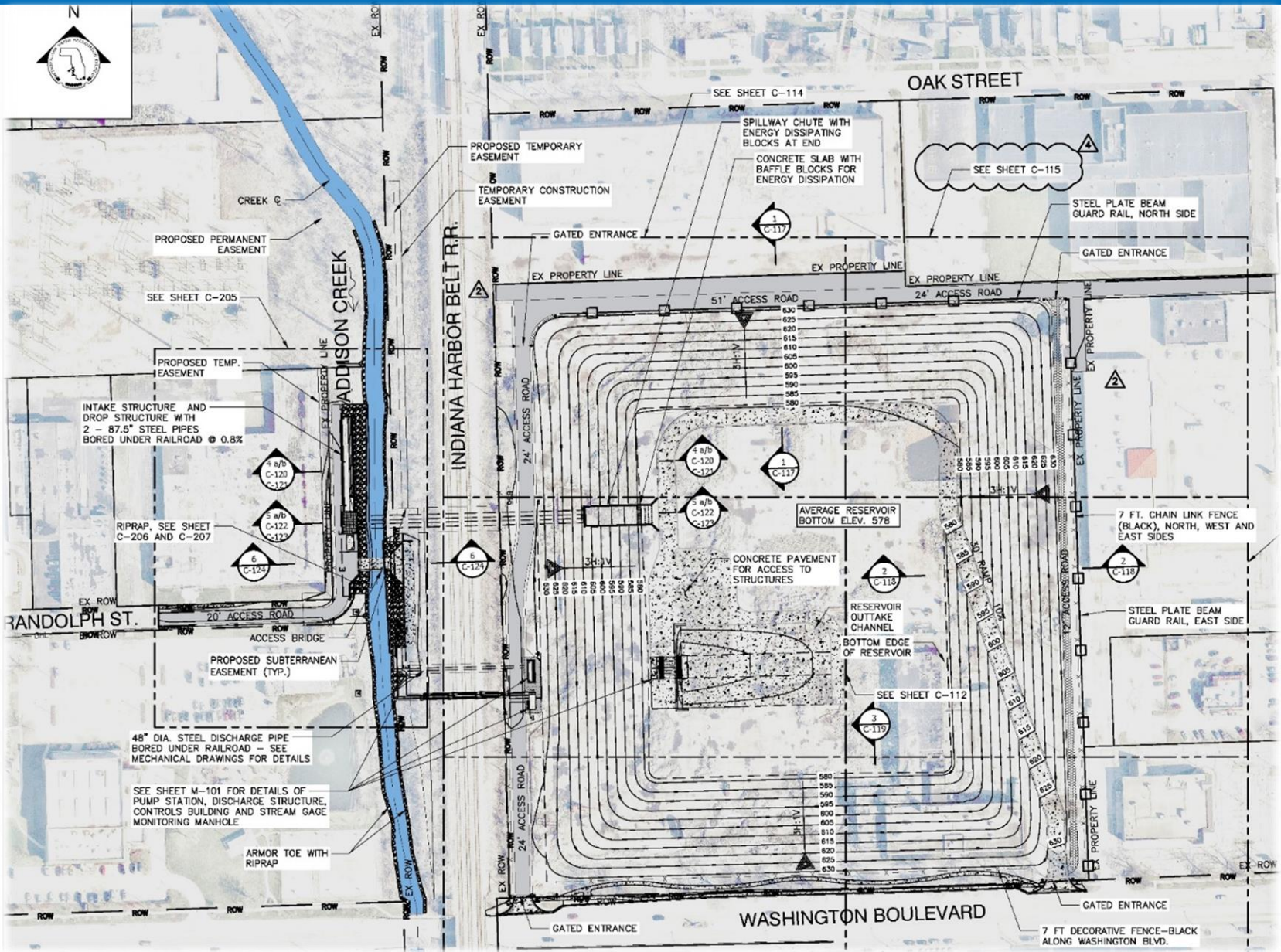
PRELIMINARY DESIGN - MELROSE PARK SITE



Photo Credit: CBEL



FINAL DESIGN - BELLWOOD SITE





STAKEHOLDERS AND CHALLENGES



Cuna



Nubani Brothers, LLC



Nicor Gas

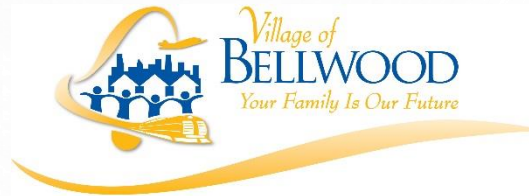
AT&T



EFN Bellwood Properties, LLC

MEMORIAL PARK DISTRICT

WHERE FUN IS SERIOUS BUSINESS



ILLINOIS HISTORIC
Preservation
AGENCY



**US Army Corps
of Engineers®**
Chicago District



REMOVAL OF PILES OF DEBRIS



Photo Credit: CBBEL



REMOVAL OF THE DEBRIS PILE



- **JOC Contractor:**
Meccor Industries Ltd
- **Awarded:**
June 2017
- **Completed:**
August 2017
- **Cost:**
\$1.06 million



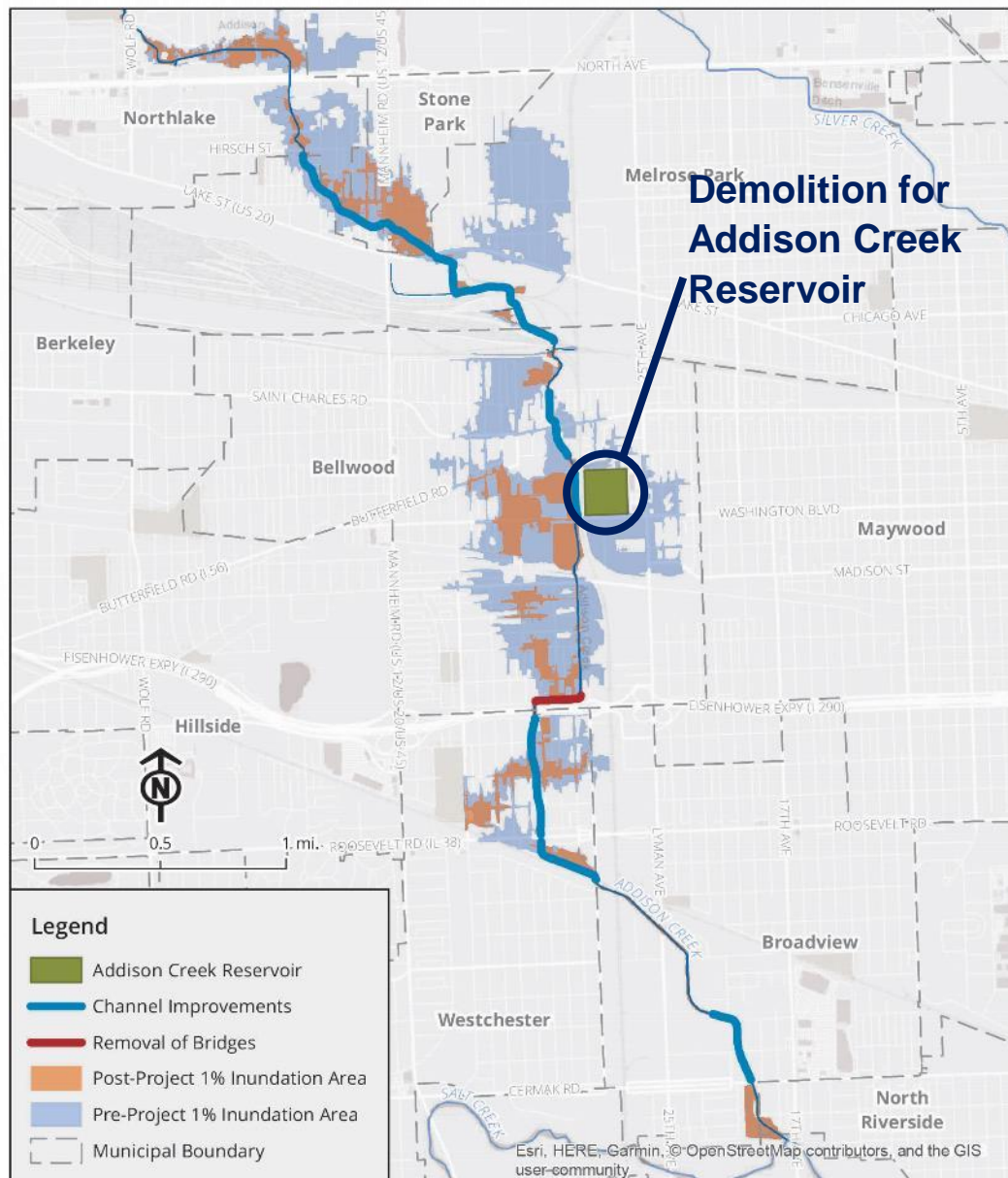
RELOCATIONS OF UTILITIES



Google Earth



DEMOLITION FOR ADDISON CREEK RESERVOIR



- **Contract:**
11-186-AF
- **Contractor:**
KLF Enterprises
- **Awarded:**
March 2018
- **Completed:**
May 2018 to July 2018
- **Cost w/ CORs:**
App. \$274K



DEMOLITION CONTRACT

3/2018

2795 Washington Blvd



Tank



Remaining Building



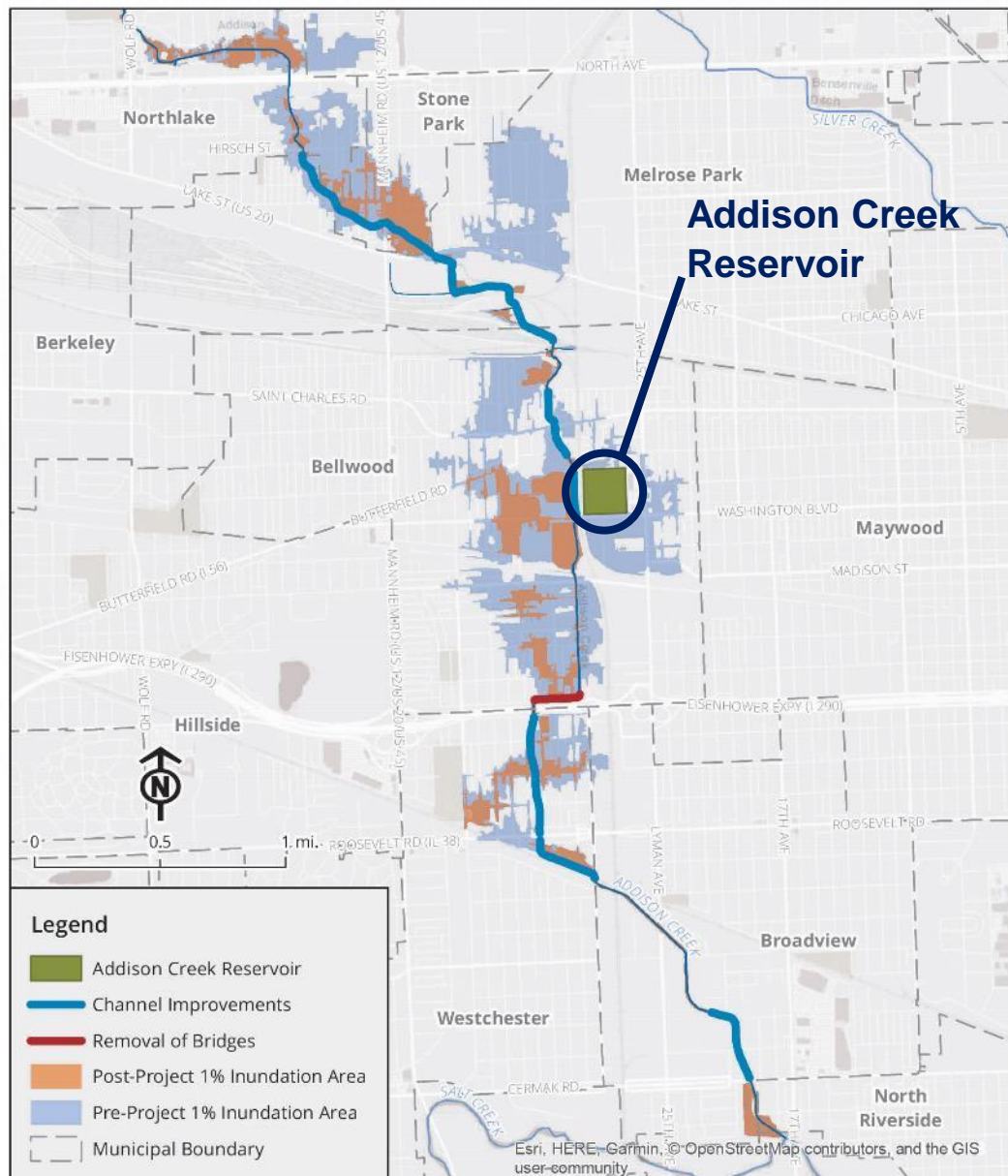
Garage

Google Earth



ADDISON CREEK RESERVOIR

- **Contract:**
11-186-3F
- **Contractor:**
IHC Construction
- **Award Date:**
January 2019
- **Completion Date:**
Est. Summer 2023
- **Award Value:**
\$63,280,000
- **Current Value w/ CORs:**
\$81,291,388.93
- **Reservoir Capacity:**
600 ac-ft or 195MG





OAK STREET

Spillway

Pump Station Wet Well

2- 87.5" Dia. Steel Intake Pipes

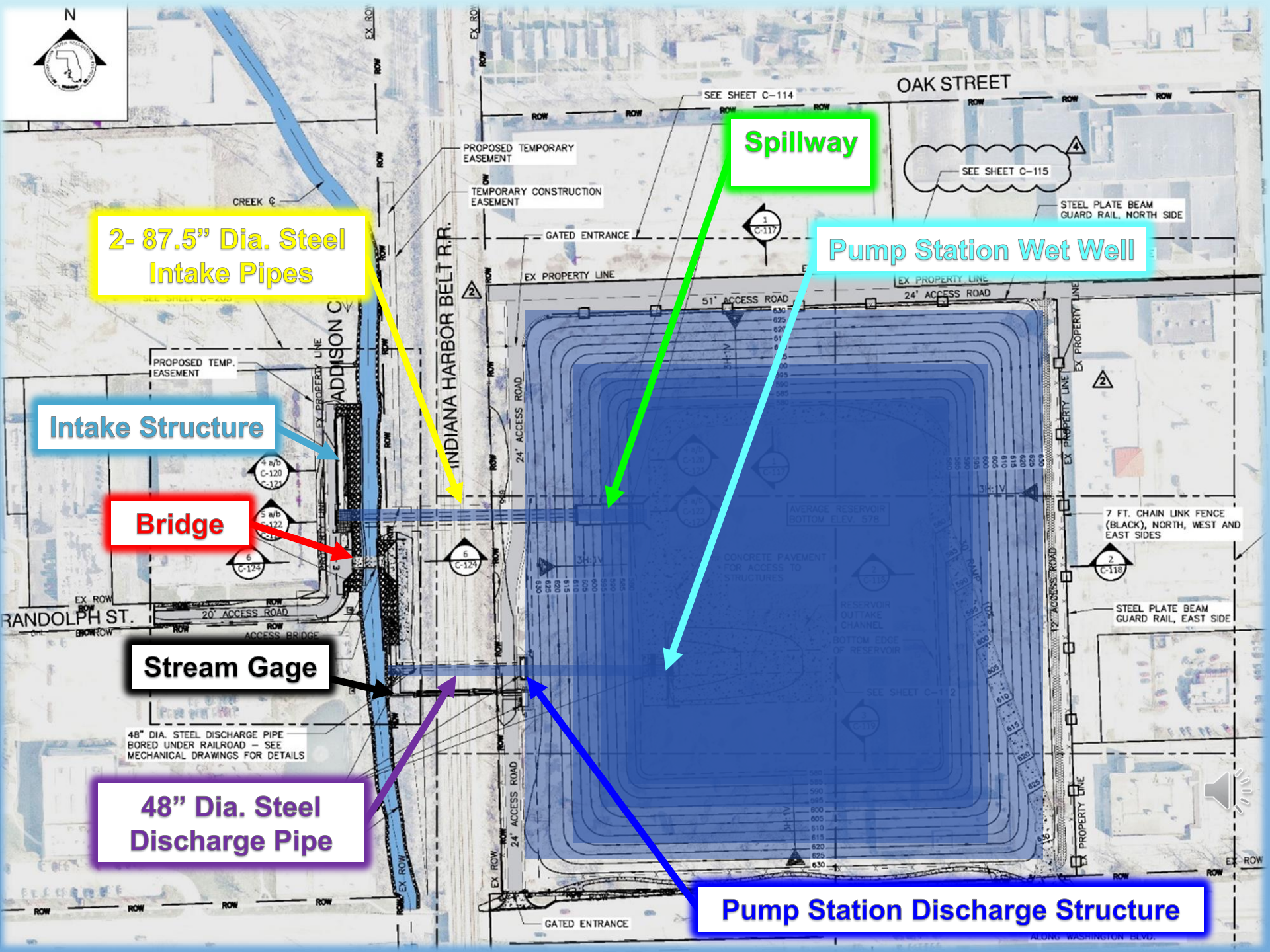
Intake Structure

Bridge

Stream Gage

48" Dia. Steel Discharge Pipe

Pump Station Discharge Structure



PROPOSED TEMPORARY EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

GATED ENTRANCE

EX PROPERTY LINE

SEE SHEET C-114

SEE SHEET C-115

STEEL PLATE BEAM GUARD RAIL, NORTH SIDE

SEE SHEET C-205

PROPOSED TEMP. EASEMENT

51' ACCESS ROAD

EX PROPERTY LINE

24' ACCESS ROAD

EX PROPERTY LINE

EX PROPERTY LINE

ADDITION C

INDIANA HARBOR BELT R.R.

24' ACCESS ROAD

7 FT. CHAIN LINK FENCE (BLACK), NORTH, WEST AND EAST SIDES

STEEL PLATE BEAM GUARD RAIL, EAST SIDE

RANDOLPH ST.

20' ACCESS ROAD

ACCESS BRIDGE

48" DIA. STEEL DISCHARGE PIPE BORED UNDER RAILROAD - SEE MECHANICAL DRAWINGS FOR DETAILS

SEE SHEET C-2

GATED ENTRANCE

ALONG WASHINGTON BLVD.



SOIL BENTONITE CUT-OFF WALL

**BENTONITE IS
INJECTED AND
MIXES WITH THE
NATIVE SOILS**

**A PERFECTLY
HOMOGENIZED
WALL IS CREATED
IN PLACE**



Video Credit: Dewind



SOIL BENTONITE CUT-OFF WALL



Video Credit: Dewind





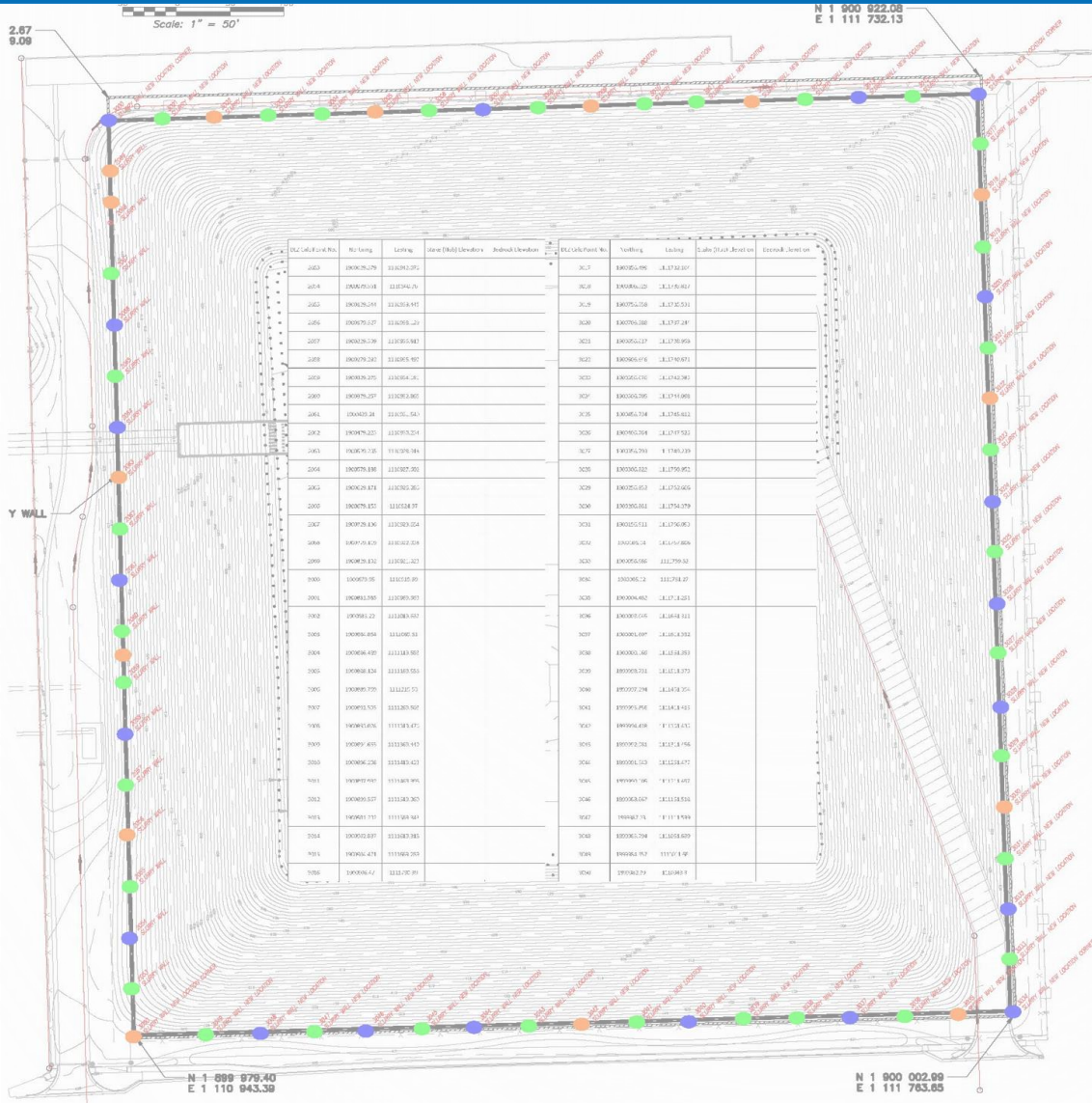
SOIL BENTONITE CUT-OFF WALL



Video Credit: Dewind

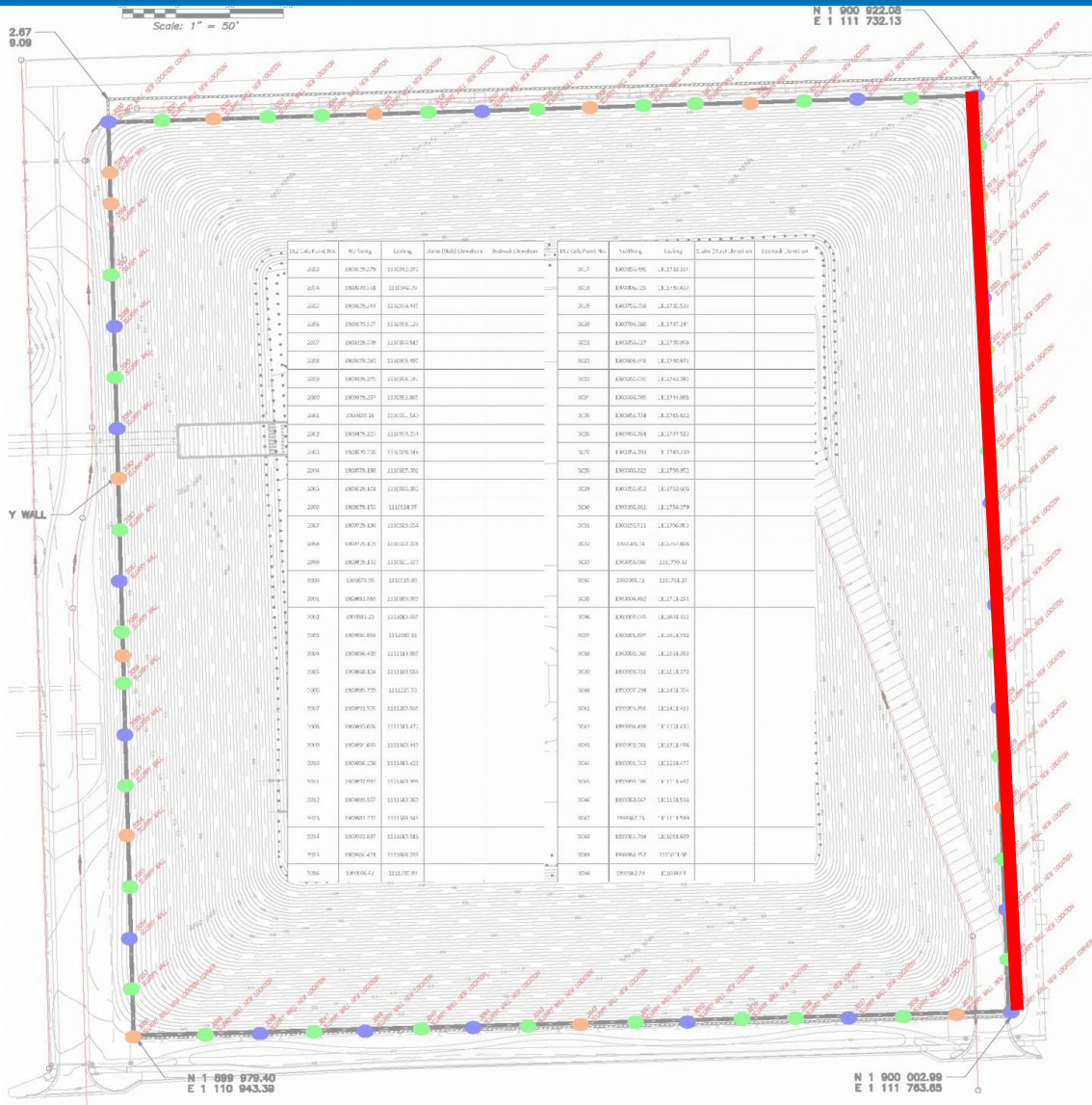


SOIL BENTONITE CUT-OFF WALL





SOIL BENTONITE CUT-OFF WALL

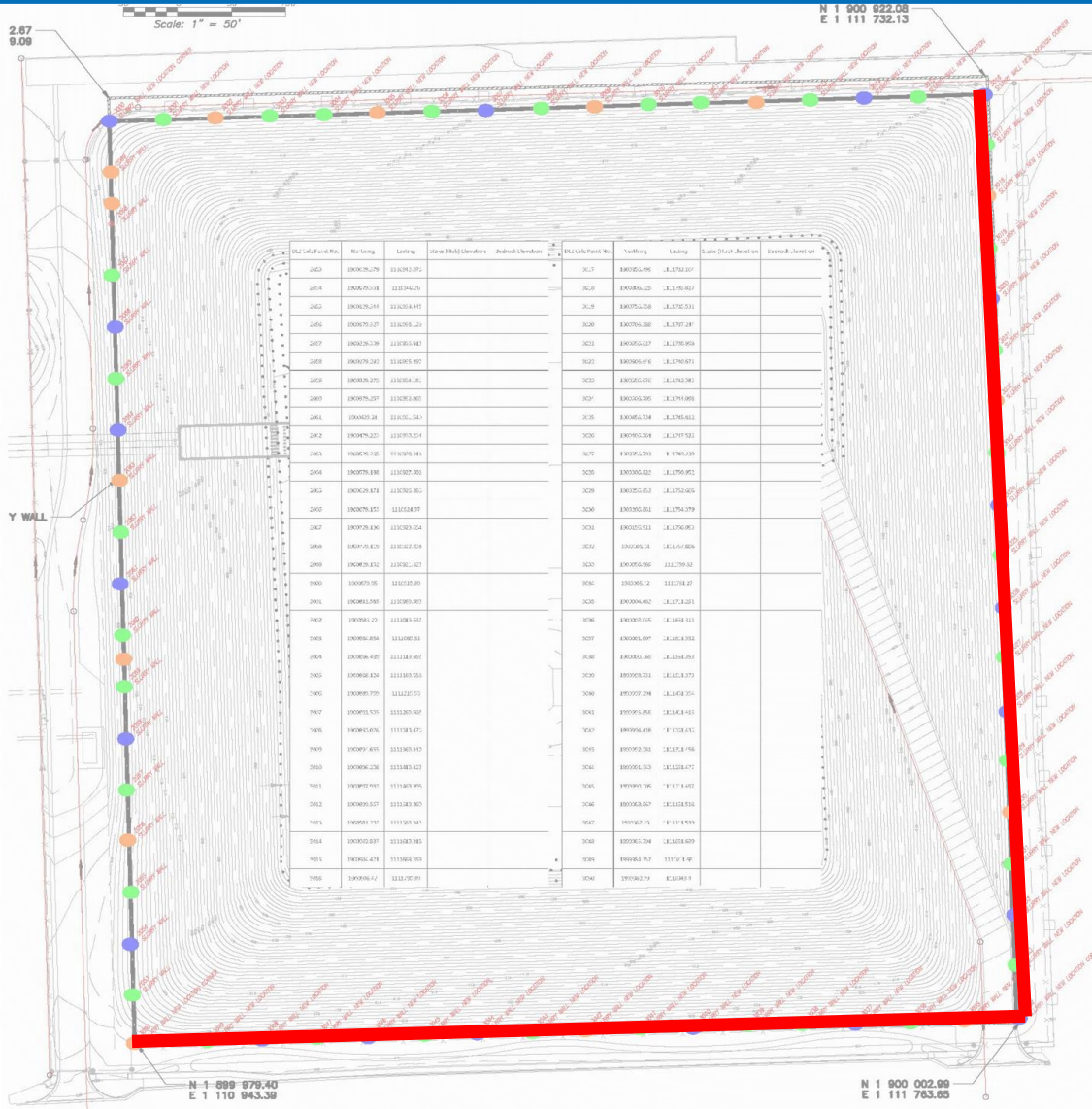


- = Rock Cores Already Completed
- = New Rock Core Locations
- = Roller Bit Locations

Location	Distance (ft)	Workdays	Average Production (ft/day)
East Wall	920	6	153.33
South Wall	838	5	167.60
West Wall	917	8	114.63
North Wall	830	7	118.57
Total Length	3505 ft	26	134.81



SOIL BENTONITE CUT-OFF WALL



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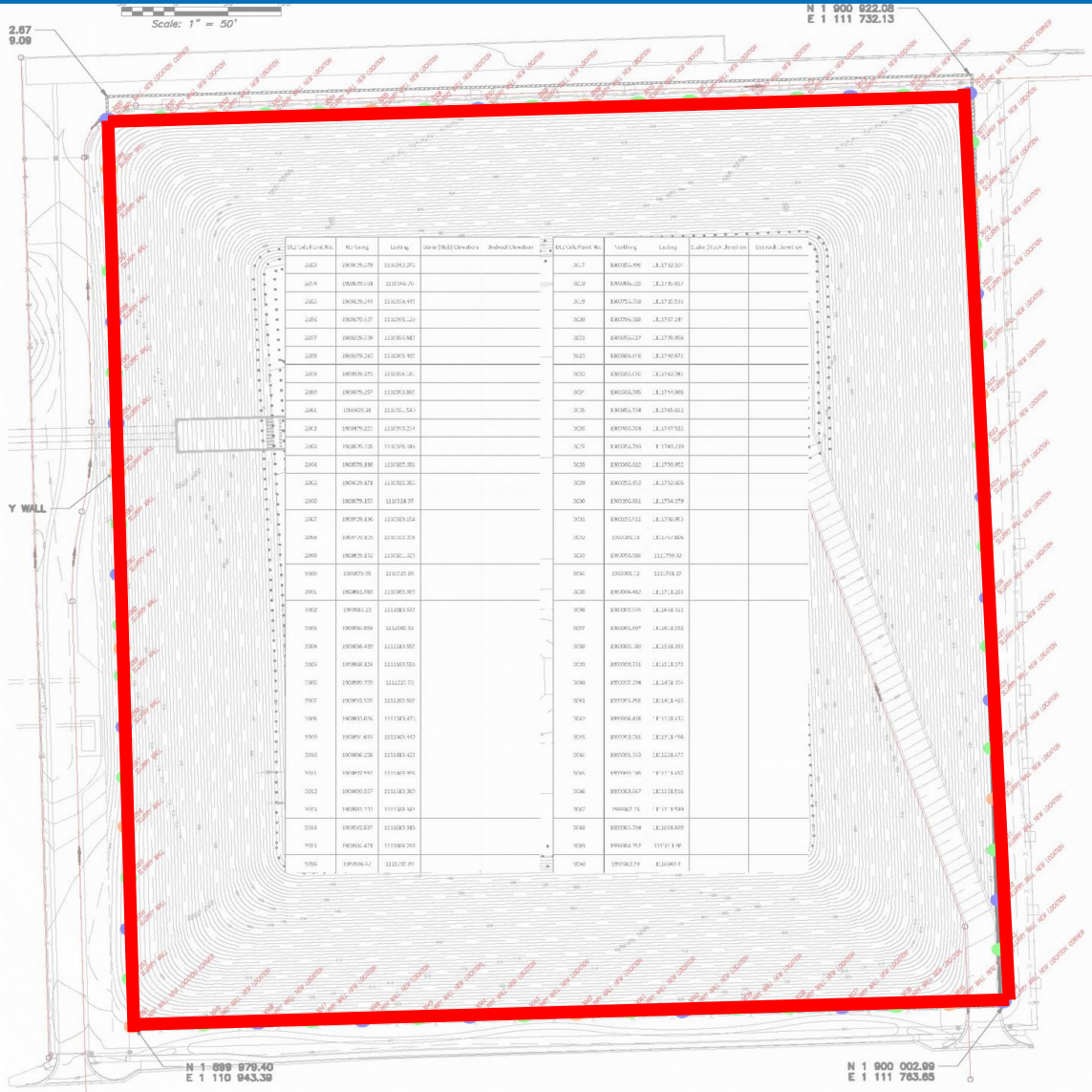


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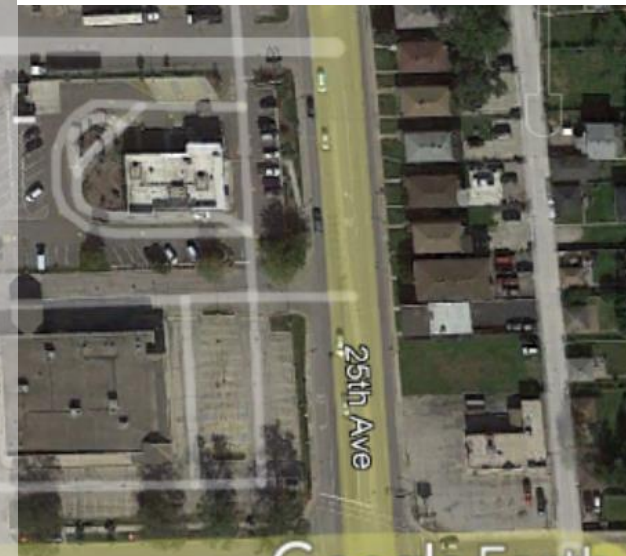


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Washington Blvd

Washington Blvd

Google Earth



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North Wall	830	7	118.57
Total Length	3505 ft	26	134.81



Washington Blvd

Washington Blvd

Google Earth

25th Ave

2795 Washington Blvd

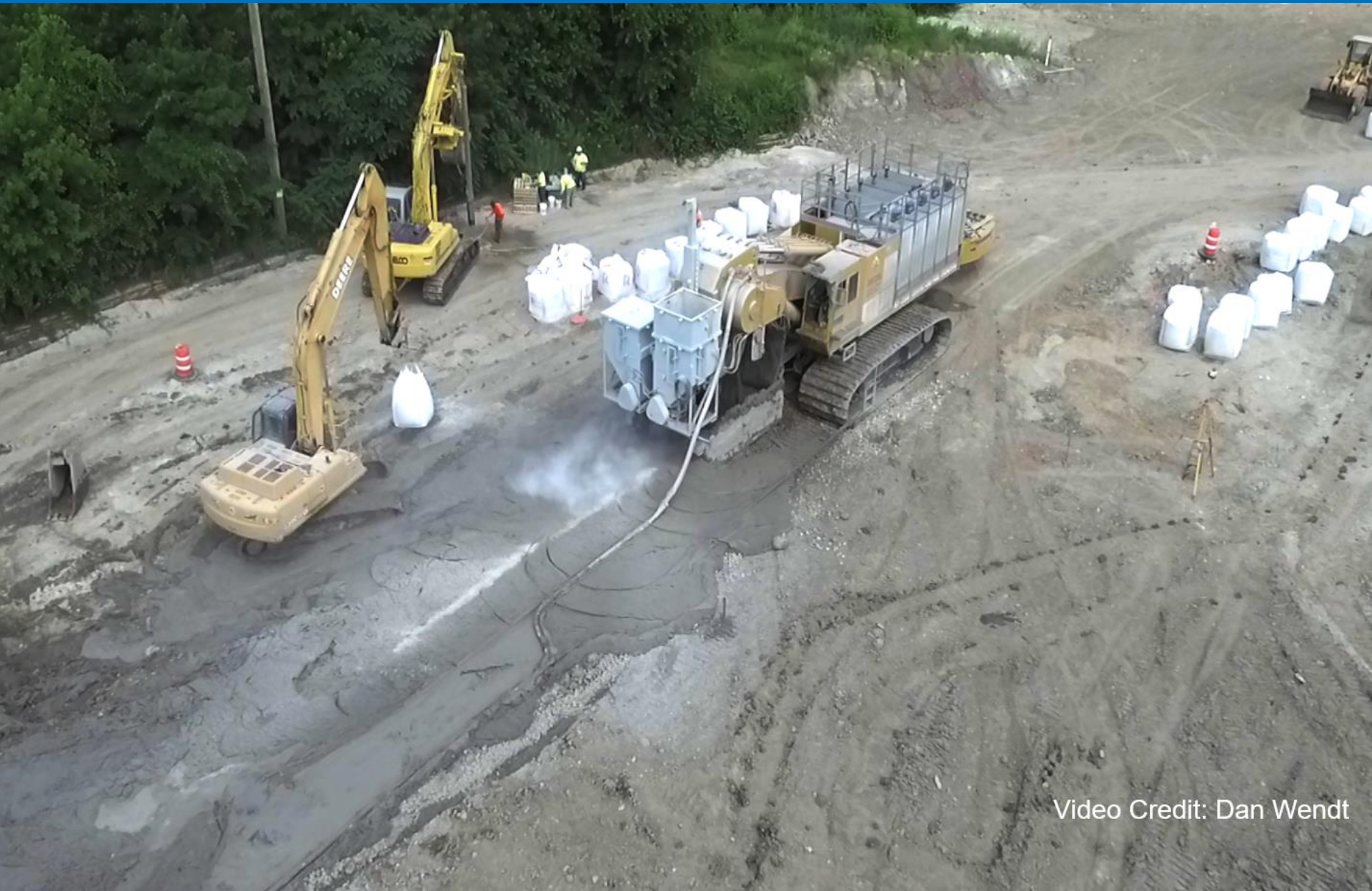
Image © 2022 Maxar Technologies

N 1 889 975.40
E 1 110 943.39

N 1 900 022.08
E 1 111 732.13



SOIL BENTONITE CUT-OFF WALL



Video Credit: Dan Wendt



INSTALLATION OF 87.5-INCH DIAMETER PIPES



Addison Creek Reservoir, January 2021

Video Credit: Dan Wendt



INSTALLATION OF 87.5-INCH DIAMETER PIPES



Addison Creek Reservoir, Jacking pits, 2021

Video Credit: Dan Wendt



INSTALLATION OF 87.5-INCH DIAMETER PIPES



Addison Creek Reservoir, Tunnel boring machine, inside the tunnel

Video Credit: Dan Wendt





INSTALLATION OF 87.5-INCH DIAMETER PIPES



Video Credit: Dan Wendt

TLC200 PRO 2021/03/16 06:56:46



INSTALLATION OF 87.5-INCH DIAMETER PIPES



Tunnel boring machine, cutting through to the intake structure

Video Credit: Dan Wendt



INSTALLATION OF 87.5-INCH DIAMETER PIPES



Video Credit: Dan Wendt



BRIDGE, INTAKE STRUCTURE, AND DROP STRUCTURE



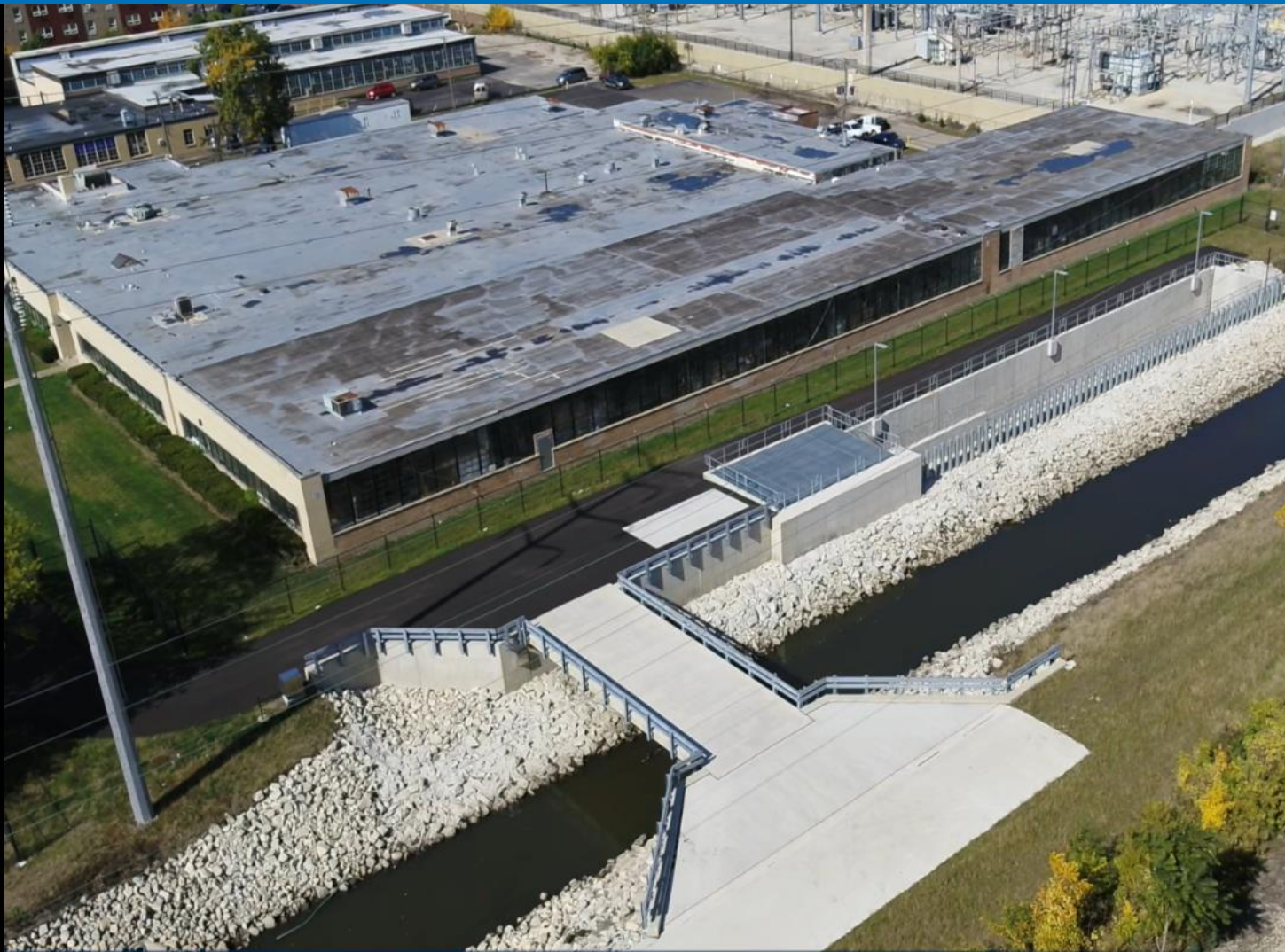
Addison Creek Reservoir / channel structures, 2019

Video Credit: Dan Wendt





BRIDGE, INTAKE STRUCTURE, AND DROP STRUCTURE



Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
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- (14) 8.83 ft on 05/15/2020

Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Addison Creek Reservoir / channel structures, 2022

Video Credit: Dan Wendt



SPILLWAY



Photo Credit: Dan Wendt



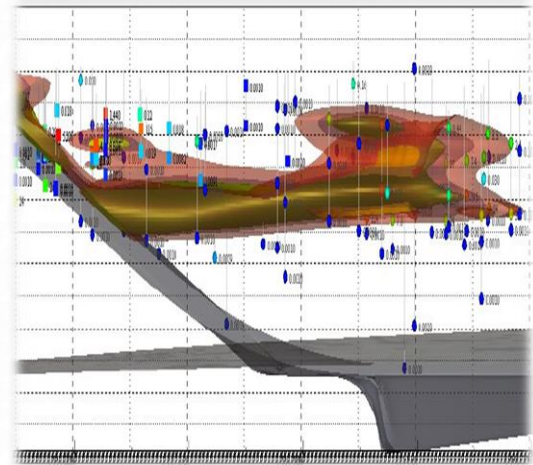
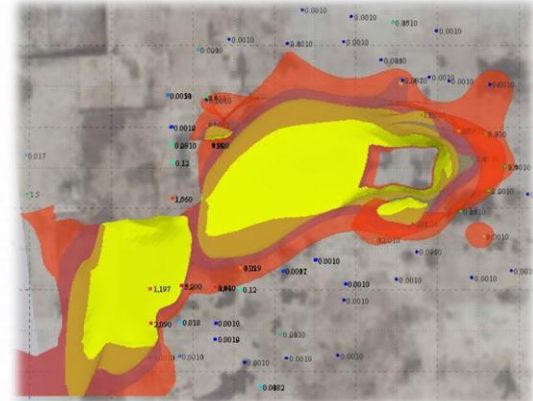
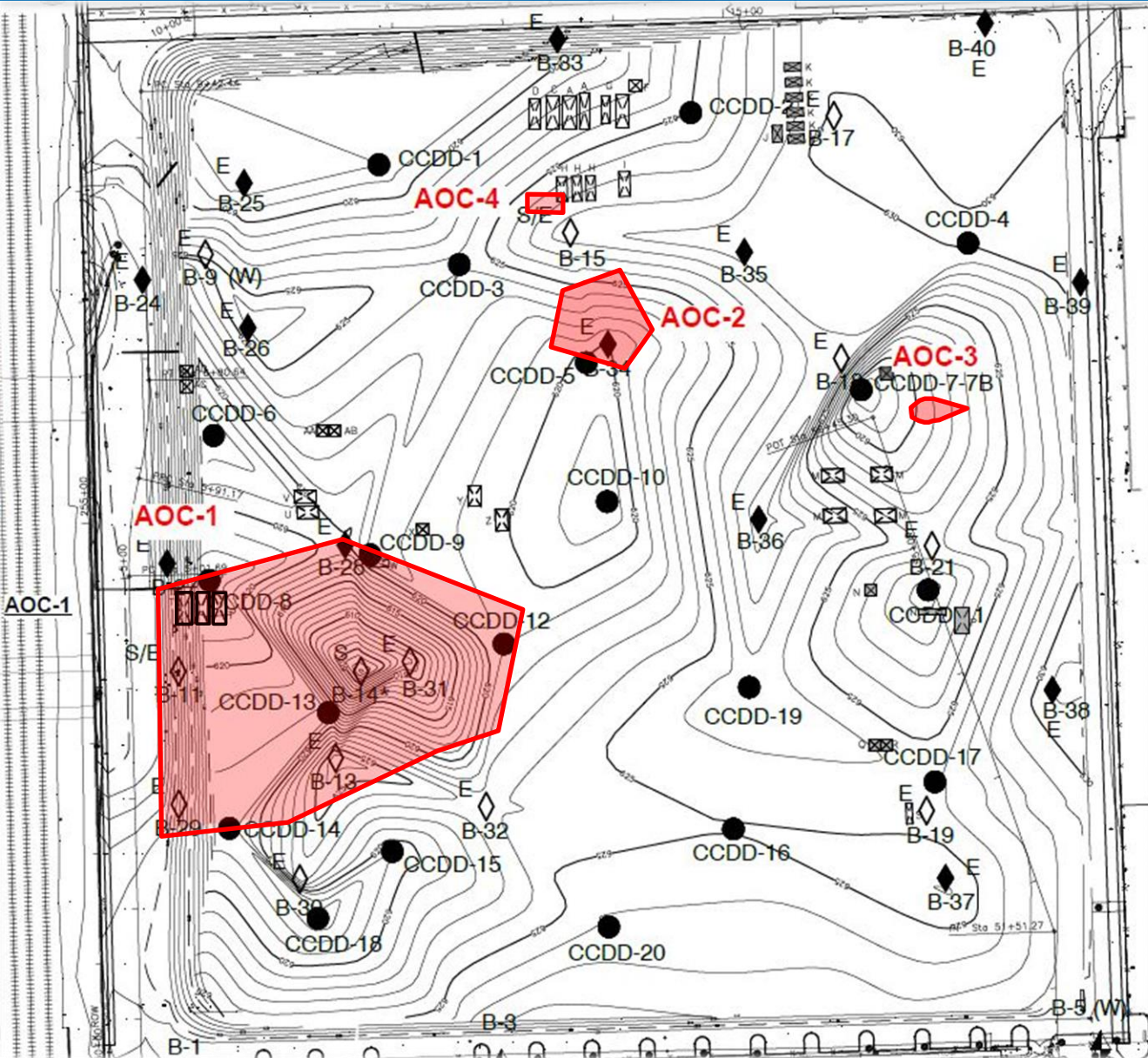
PUMP STATION



Photo Credit: Dan Wendt



SOURCE CONTAMINATION





TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, April 2019

Video Credit: Dan Wendt



TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, October 2019

Video Credit: Dan Wendt





TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, October 2020

Video Credit: Dan Wendt





TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, September 2021

Video Credit: Dan Wendt





TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, March 2022

Video Credit: Dan Wendt



TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, June 2022

Video Credit: Dan Wendt





TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, October 2022

Video Credit: Dan Wendt



2- 87.5" Dia. Steel Intake Pipes

Spillway

Pump Station Wet Well

Pump Station Discharge Structure

48" Dia. Steel Discharge Pipe

Intake Structure

Stream Gage

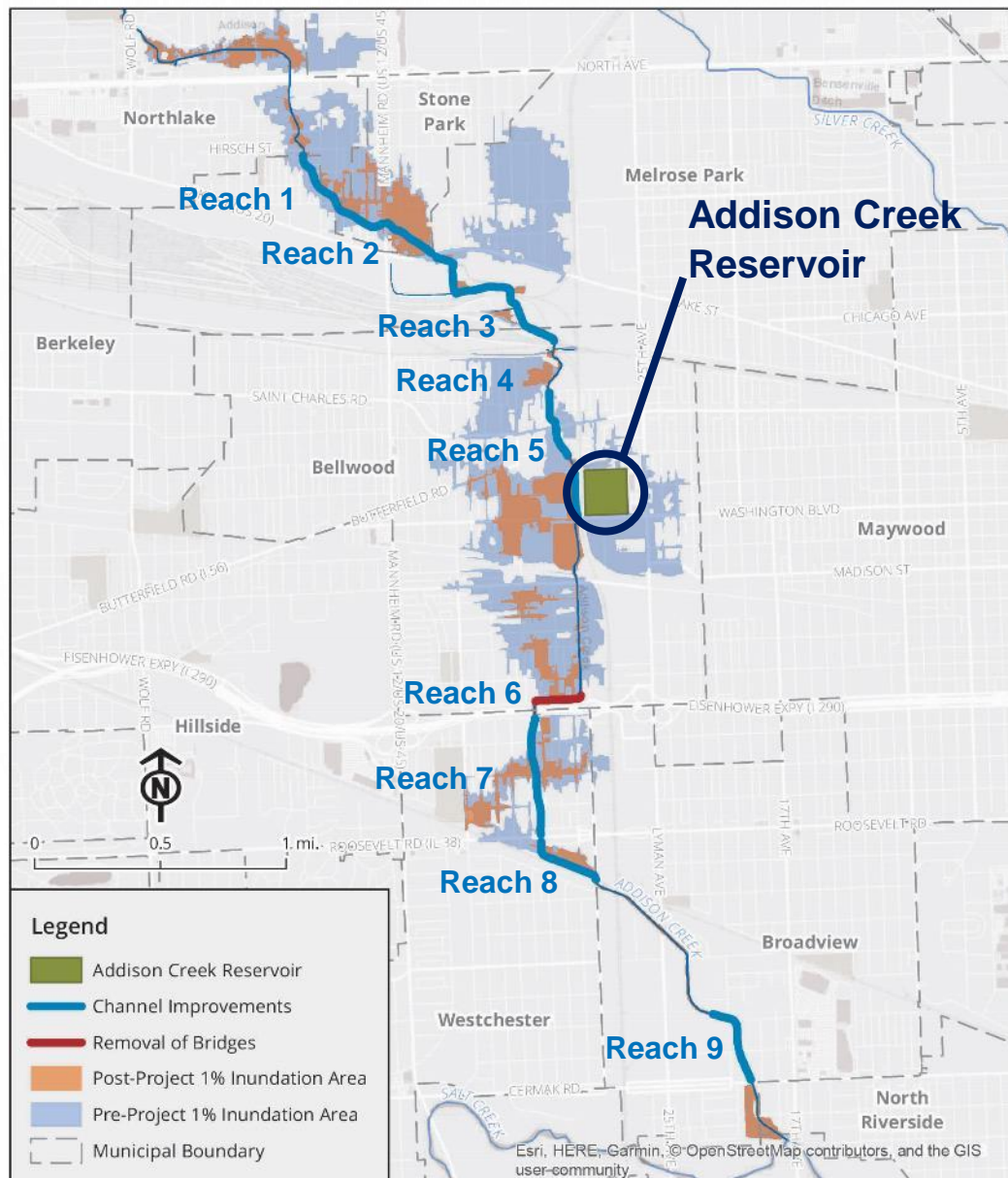
Bridge

Photo Credit: Dan Wendt



DEMOLITION FOR ADDISON CREEK CHANNEL IMPROVEMENTS

- **Contract:**
11-187-AF
- **Contractor:**
TBD- Currently Out for Bids
- **Awarded:**
July 2021
- **Completed:**
January 2022
- **Cost:**
\$747,601
- **Demo**
16 Residential Homes &
13 Mobile Home Trailers





RELOCATION WARNING SIREN AND BILLBOARD



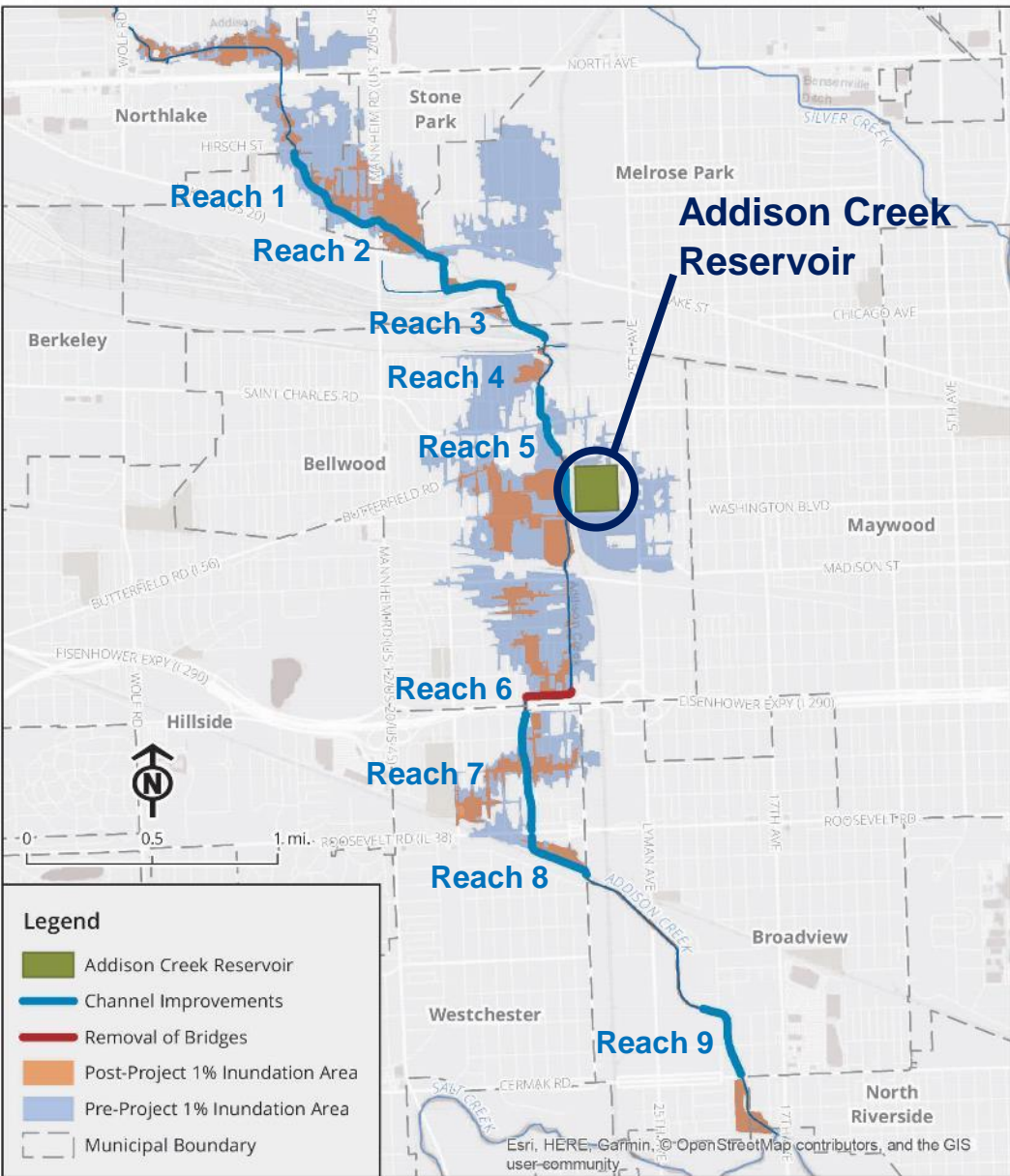
Photo Credit: Mick Cosmet



Photo Credit: Google



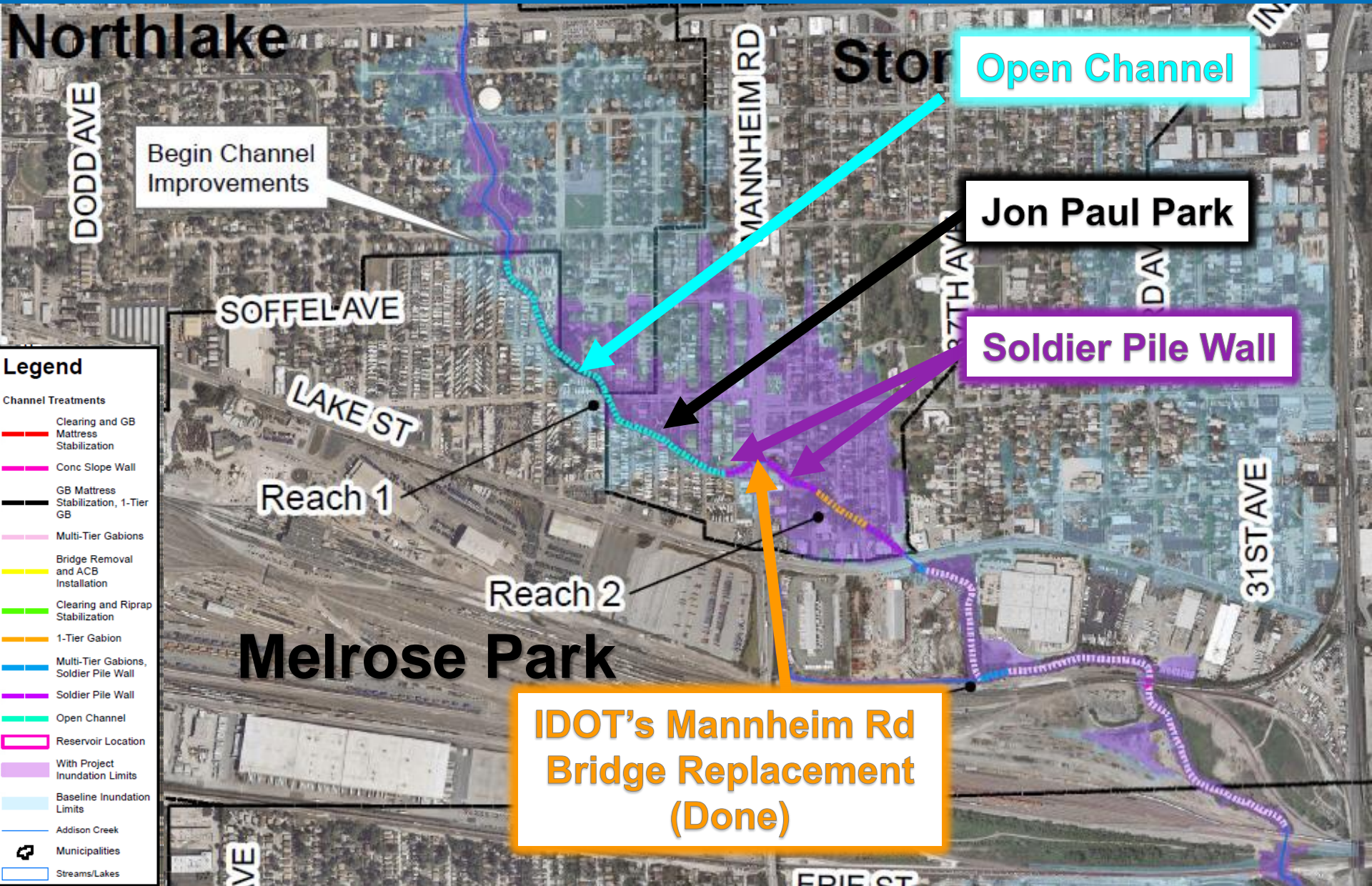
ADDISON CREEK CHANNEL IMPROVEMENTS



- **Contractor:**
TBD- Currently Out for Bids
- **Est Award Date:**
Spring 2023
- **Est. Completion Date:**
Spring 2026
- **Est. Value:**
Between \$57,133,000 and \$69,161,000
- **Channel Improvements:**
App. 3 miles



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 1



Begin Channel Improvements

Open Channel

Jon Paul Park

Soldier Pile Wall

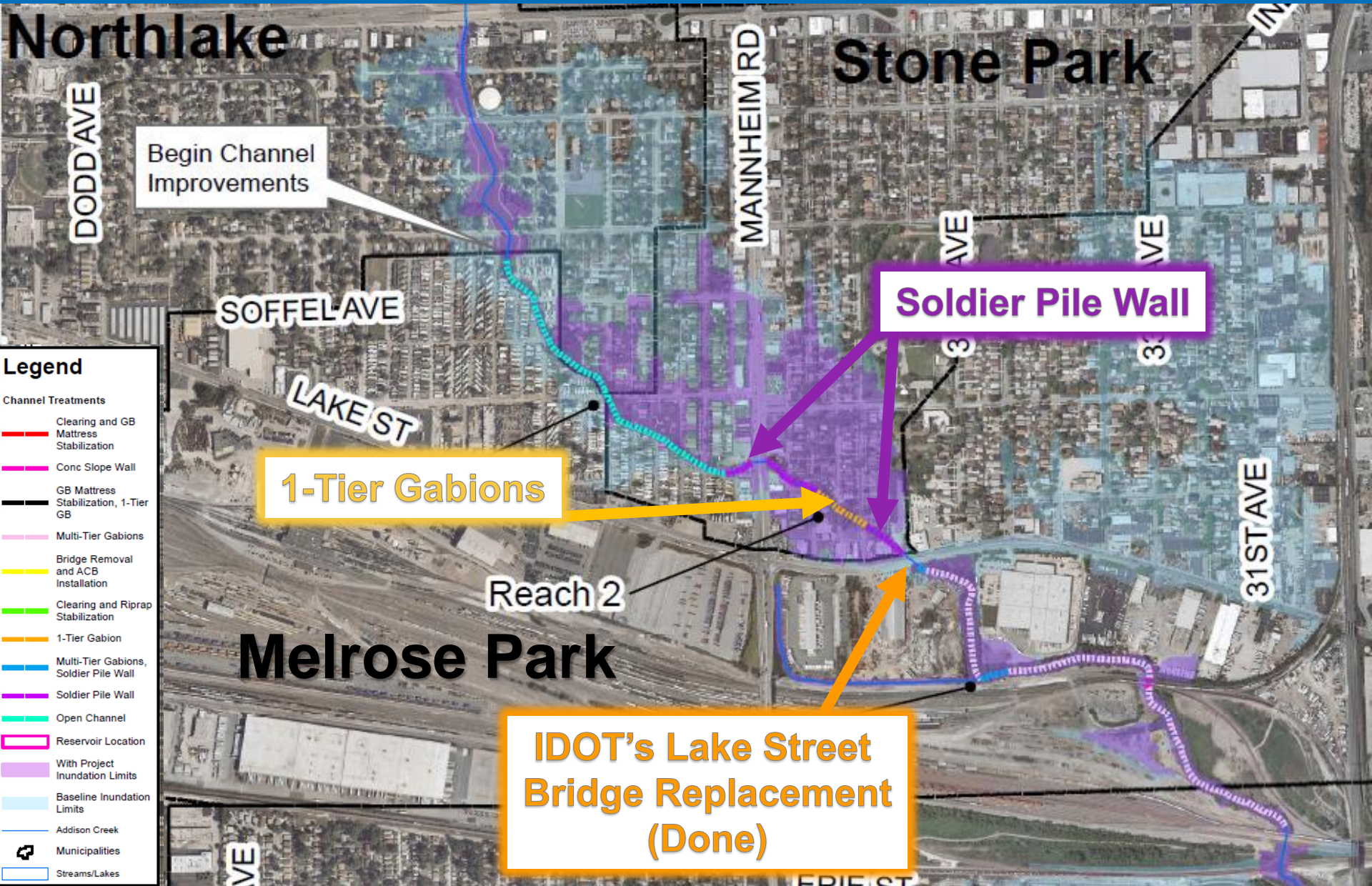
IDOT's Mannheim Rd Bridge Replacement (Done)

Legend

- Channel Treatments**
- Clearing and GB Mattress Stabilization
- Conc Slope Wall
- GB Mattress Stabilization, 1-Tier GB
- Multi-Tier Gabions
- Bridge Removal and ACB Installation
- Clearing and Riprap Stabilization
- 1-Tier Gabion
- Multi-Tier Gabions, Soldier Pile Wall
- Soldier Pile Wall
- Open Channel
- Reservoir Location
- With Project Inundation Limits
- Baseline Inundation Limits
- Addison Creek
- Municipalities
- Streams/Lakes



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 2



Begin Channel Improvements

SOFFEL AVE

LAKE ST

MANNHEIM RD

Stone Park

Soldier Pile Wall

1-Tier Gabions

Reach 2

Melrose Park

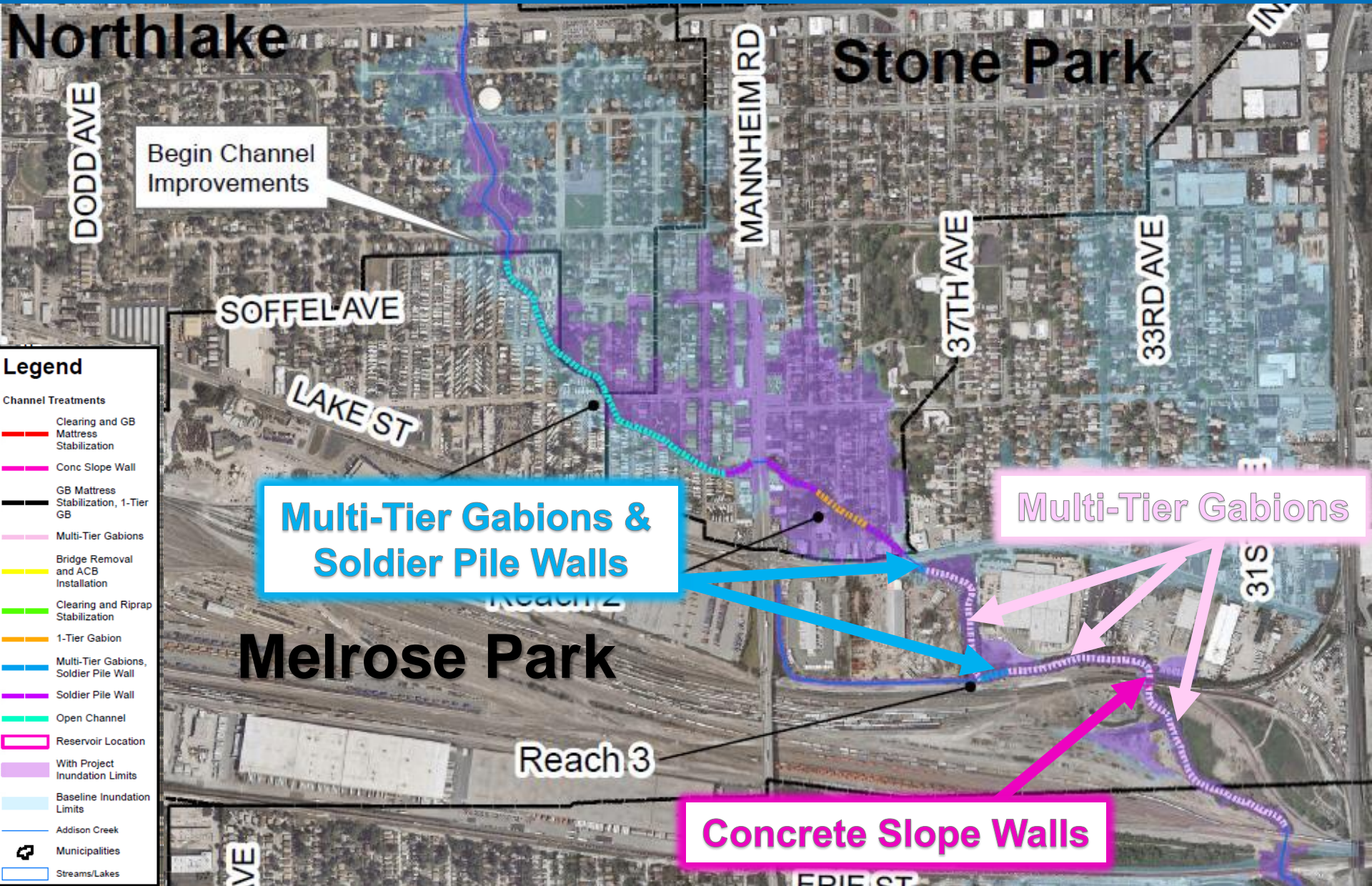
IDOT's Lake Street Bridge Replacement (Done)

Legend

- Channel Treatments**
- Clearing and GB Mattress Stabilization
- Conc Slope Wall
- GB Mattress Stabilization, 1-Tier GB
- Multi-Tier Gabions
- Bridge Removal and ACB Installation
- Clearing and Riprap Stabilization
- 1-Tier Gabion
- Multi-Tier Gabions, Soldier Pile Wall
- Soldier Pile Wall
- Open Channel
- Reservoir Location
- With Project Inundation Limits
- Baseline Inundation Limits
- Addison Creek
- Municipalities
- Streams/Lakes



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 3



Begin Channel Improvements

Multi-Tier Gabions & Soldier Pile Walls

Multi-Tier Gabions

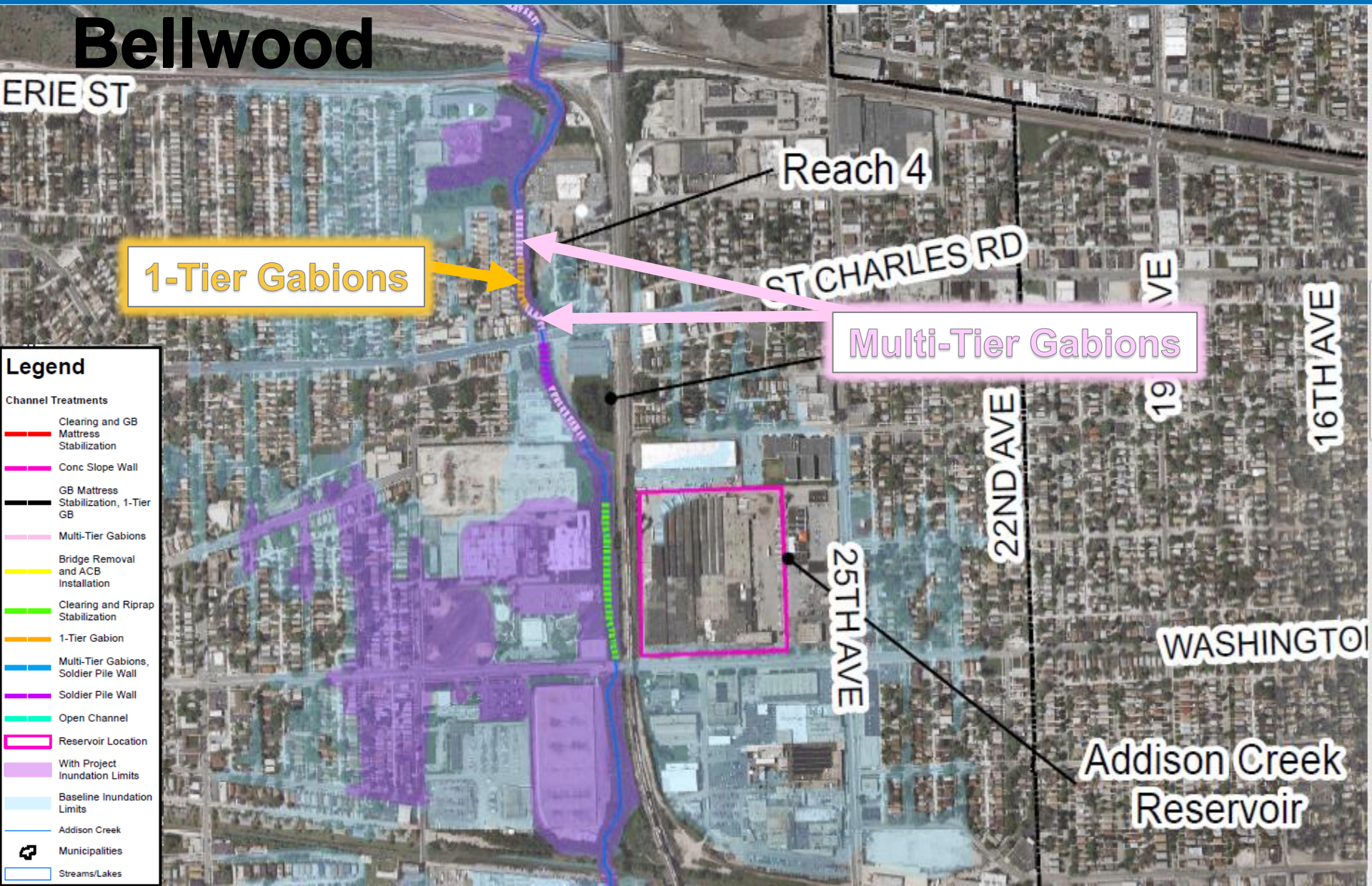
Concrete Slope Walls

- Legend**
- Channel Treatments**
- Clearing and GB Mattress Stabilization
 - Conc Slope Wall
 - GB Mattress Stabilization, 1-Tier GB
 - Multi-Tier Gabions
 - Bridge Removal and ACB Installation
 - Clearing and Riprap Stabilization
 - 1-Tier Gabion
 - Multi-Tier Gabions, Soldier Pile Wall
 - Soldier Pile Wall
 - Open Channel
 - Reservoir Location
 - With Project Inundation Limits
 - Baseline Inundation Limits
 - Addison Creek
 - Municipalities
 - Streams/Lakes



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 4

Bellwood



1-Tier Gabions

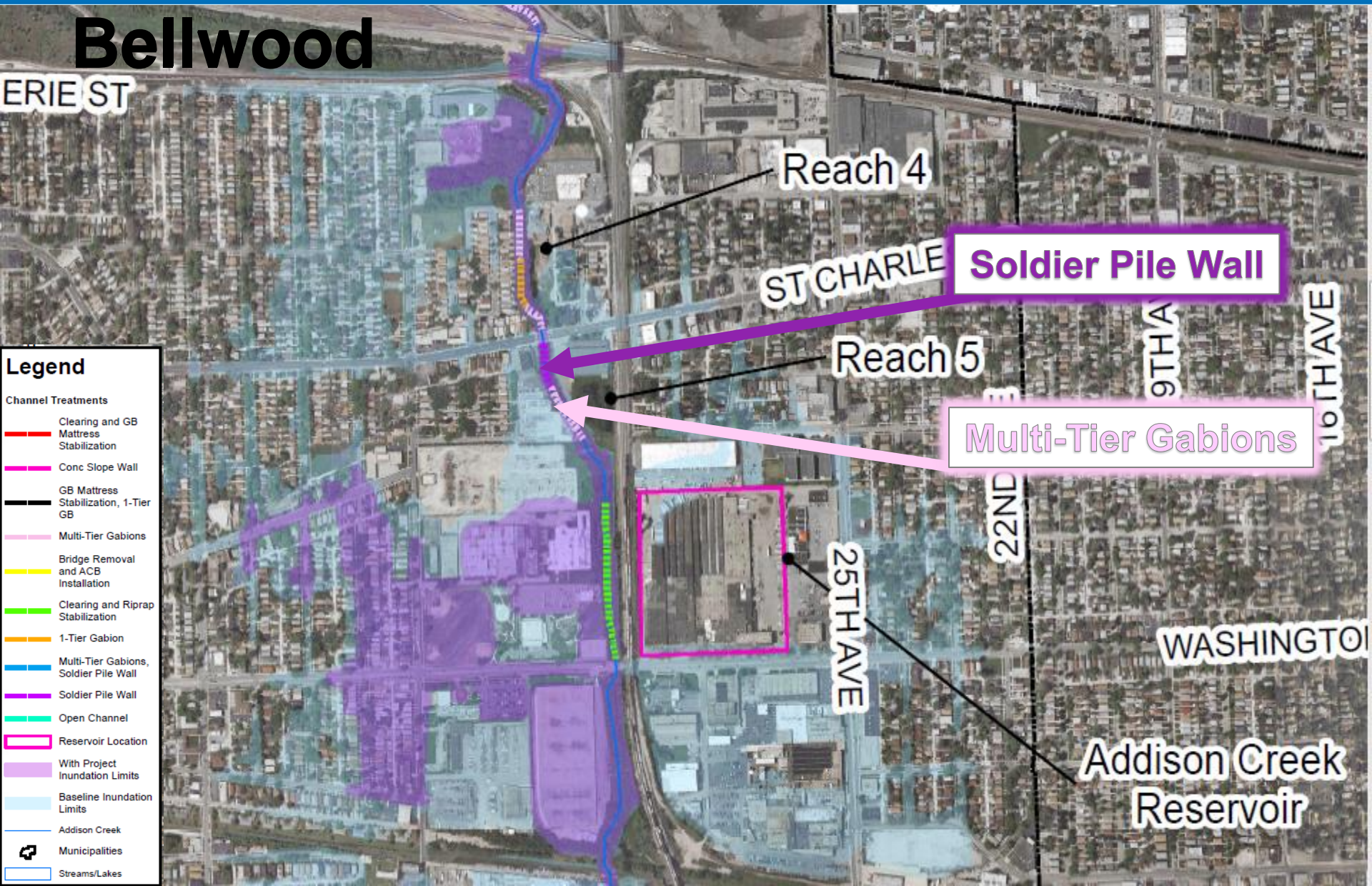
Multi-Tier Gabions

Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 5

Bellwood



Legend

Channel Treatments

- Clearing and GB Mattress Stabilization
- Conc Slope Wall
- GB Mattress Stabilization, 1-Tier GB
- Multi-Tier Gabions
- Bridge Removal and ACB Installation
- Clearing and Riprap Stabilization
- 1-Tier Gabion
- Multi-Tier Gabions, Soldier Pile Wall
- Soldier Pile Wall
- Open Channel
- Reservoir Location
- With Project Inundation Limits
- Baseline Inundation Limits
- Addison Creek
- Municipalities
- Streams/Lakes

Reach 4

ST CHARLE

Soldier Pile Wall

Reach 5

Multi-Tier Gabions

9TH AVE

16TH AVE

22ND

25TH AVE

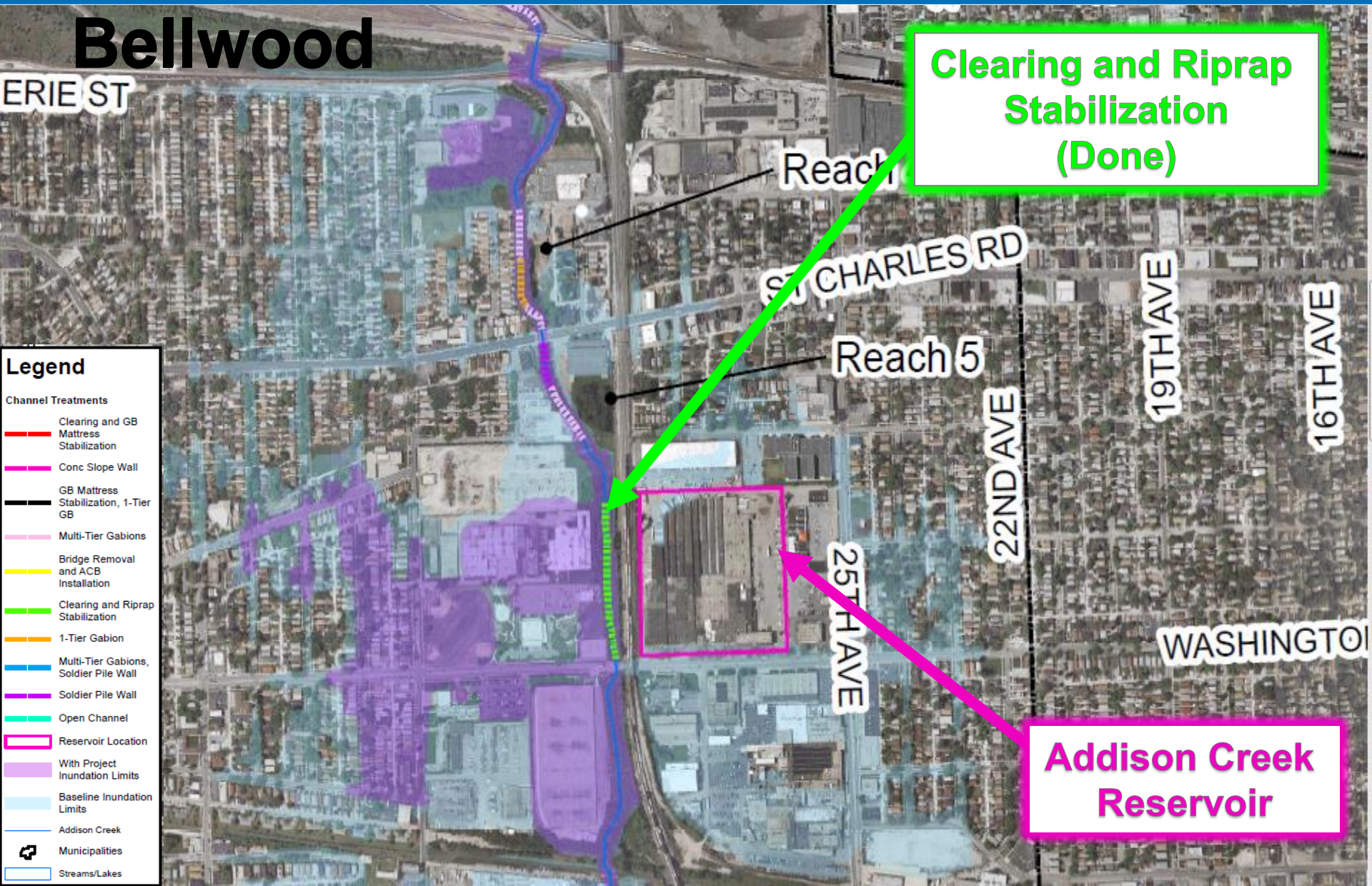
WASHINGTON

Addison Creek Reservoir



ADDISON CREEK RESERVOIR

Bellwood



Clearing and Riprap Stabilization (Done)

Addison Creek Reservoir

Legend

Channel Treatments

- Clearing and GB Mattress Stabilization
- Conc Slope Wall
- GB Mattress Stabilization, 1-Tier GB
- Multi-Tier Gabions
- Bridge Removal and ACB Installation
- Clearing and Riprap Stabilization
- 1-Tier Gabion
- Multi-Tier Gabions, Soldier Pile Wall
- Soldier Pile Wall
- Open Channel
- Reservoir Location
- With Project Inundation Limits
- Baseline Inundation Limits
- Addison Creek
- Municipalities
- Streams/Lakes



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 6

Bellwood

Remove
3 Bridges

Remove 3 Bridges &
Installation ACB



Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes

IDOT'S I-290

Reach 7

Westchester

Broadview

ROOSEVELT RD

LEMAN AVE

2ND AVE

HARVARD



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 7

Bellwood

Remove
3 Bridges

Reach 6

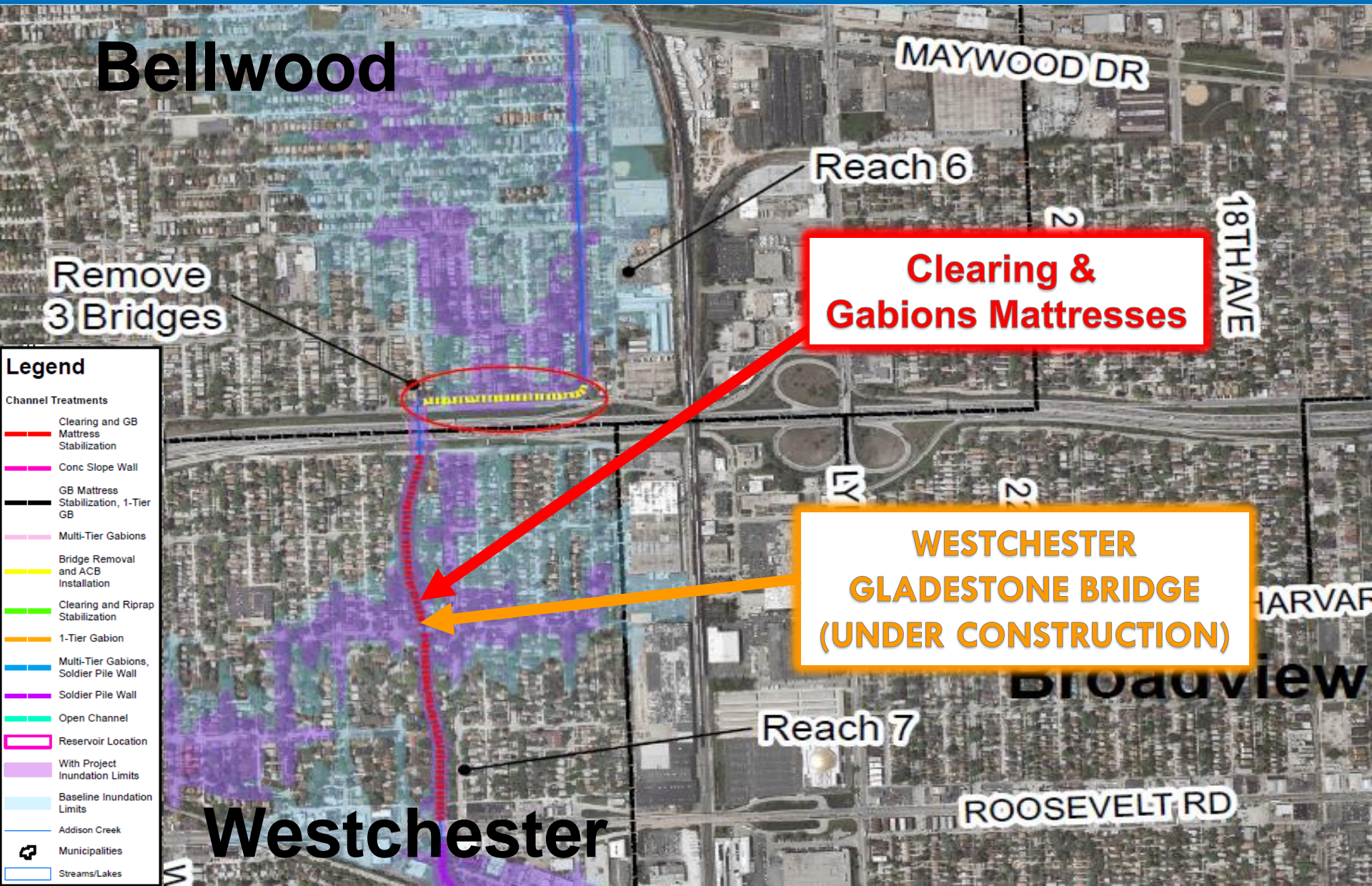
**Clearing &
Gabions Mattresses**

**WESTCHESTER
GLADESTONE BRIDGE
(UNDER CONSTRUCTION)**

Reach 7

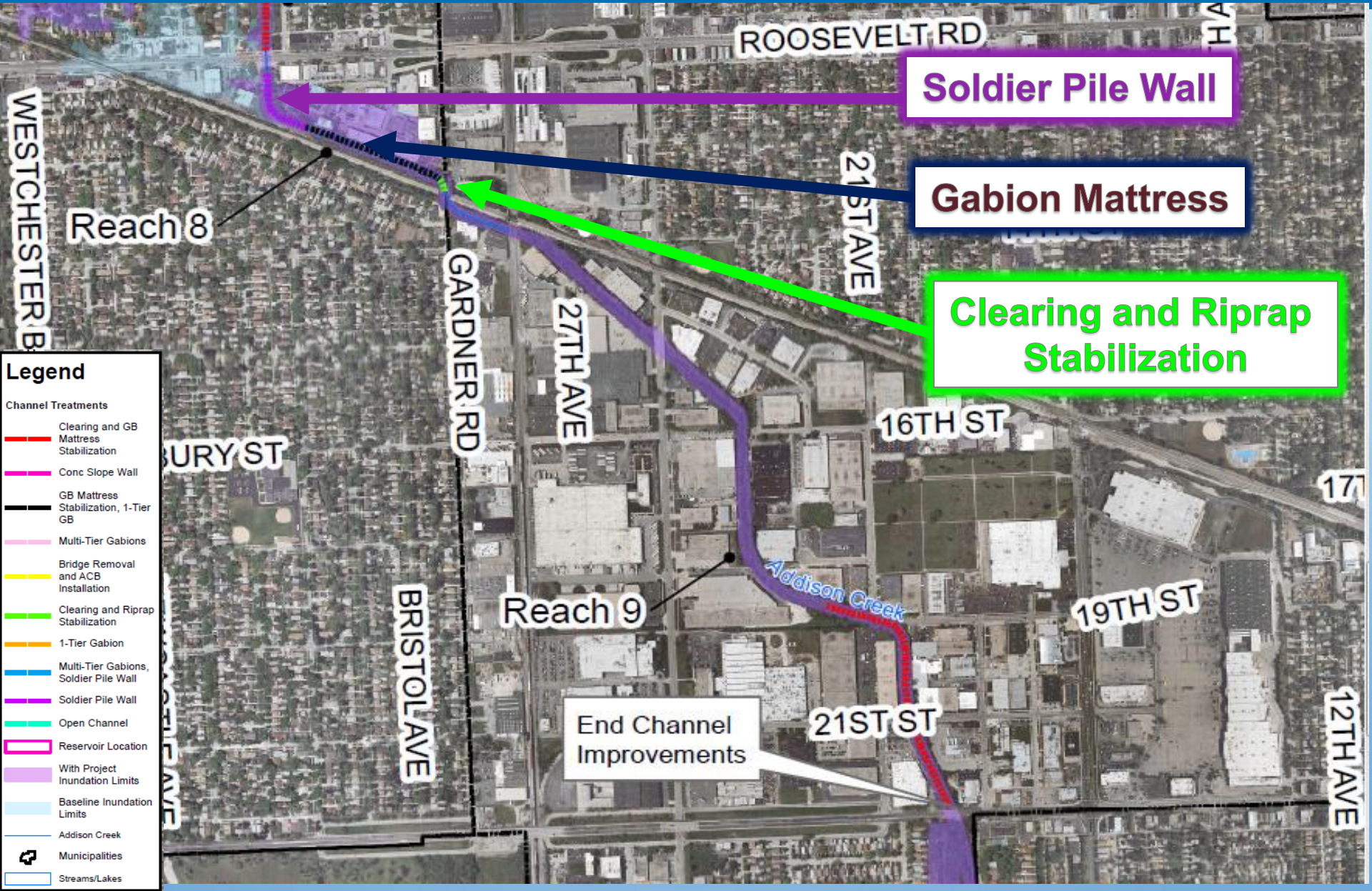
Westchester

Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes





ADDISON CREEK CHANNEL IMPROVEMENTS REACH 8



Soldier Pile Wall

Gabion Mattress

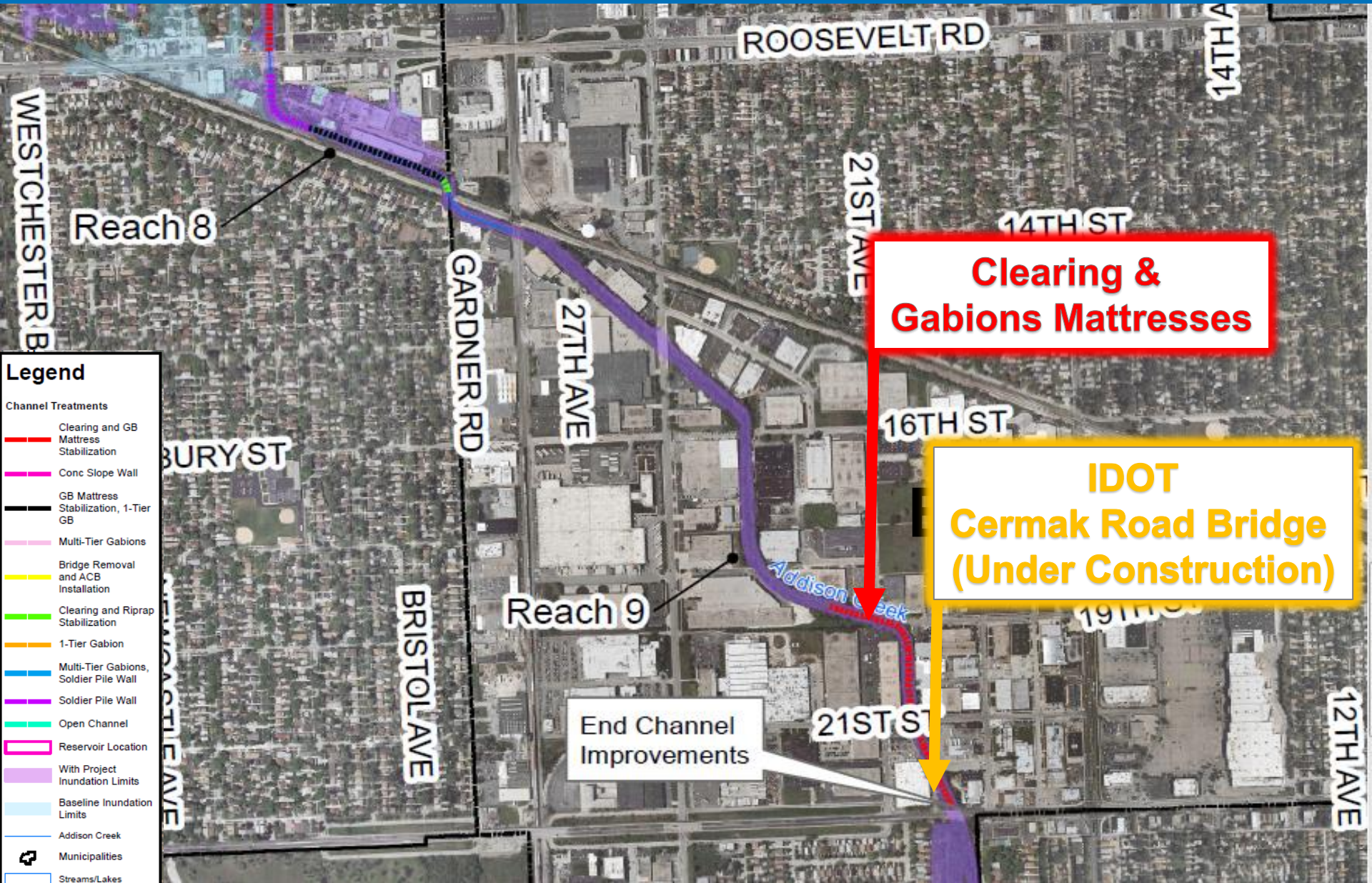
Clearing and Riprap Stabilization

End Channel Improvements

Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes



ADDISON CREEK CHANNEL IMPROVEMENTS REACH 9





MILESTONES TO COMPLETION

Complete Reservoir Control Building - Spring 2023

Place Reservoir Online - Summer 2023

Construct Reach 1, 2, Upstream 3, 7, & 9 - Spring 2024

Construct Reach Downstream 3, 4, 5, 6, & 8 - Spring 2025

Following with FEMA Map Revisions



QUESTIONS?